Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology
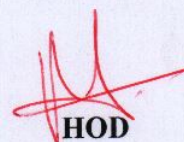
Ref: VJIT/IT/VAC/2019-20 /1

Date: 20th June 2019

CIRCULAR

The Department of Information Technology is offering the value added courses in association with IIT Bombay Spoken Tutorials scheduled from 1st July – 31st December, 2019.

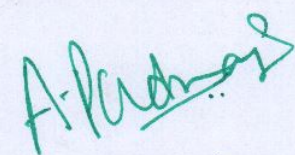| S.No.	Name of the Course	Name of the Instructor
1	C and CPP	Mrs. Vijayashanthi
2	Linux	Mrs. T Devi

These courses shall be implemented for the academic year 2019-20. The students can register to interested courses on or before 30th June 2019.

All the registered students must attend the classes and solve all the assignments without fail. Students who have completed the course successfully with 40% only get the certificate from IITBombay Spoken tutorials.

HOD

Copy to:

1. The Principal Office
2. Notice Board
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Vidya Jyothi Institute of Technology
Hunsyanagar (VJIT), C B. Post,
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Spoken Tutorial
https://spoken-tutorial.org

Scan the QR code to
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THE **C** **C++**
PROGRAMMING
LANGUAGE

National Mission on Education through
Information and Communication Technology
(NMEICT)
www.sakshat.ac.in

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The Spoken Tutorial Project

The Spoken Tutorial Project
is funded by the
National Mission on Education through
Information and Communication Technology,
Ministry of Human Resource Development,
Government of India.

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new FLOSS (Free/Libre and Open Source Software)

Target Group

- Students- High School and College
- Working professional- Software users, developers and trainers
- Research scholars
- Community at large

Workshops

The Spoken Tutorial Project Team conducts
workshops on C and C++ and other FLOSS using
spoken tutorials and gives certificates to those
who pass an online test.
For more details, please visit
https://spoken-tutorial.org

Forum

We have developed a beginner friendly Forum to
answer specific questions pertaining to any part
of a particular tutorial.
For more details, please visit
https://forums.spoken-tutorial.org

Contact us

Email: contact@spoken-tutorial.org
Website: https://spoken-tutorial.org

Content available
in
22 Indian languages

Forum help
available
to all learners

IIT Bombay

About C

C is a general-purpose programming language, initially developed by Dennis Ritchie between 1969 and 1973 at Bell Labs. Its design provides constructs that map efficiently to typical machine instructions. C is one of the most widely used programming language and there are very few computer architectures for which a C compiler does not exist.

Features

- C has facilities for structured programming and allows lexical variable scope and recursion.

- All executable code is contained within subroutines, called "functions."

- C program source text is free-format, using the semicolon as a statement terminator and curly braces for grouping blocks of statements.

- Typing is static, but weakly enforced: all data has a type, but implicit conversions can be performed; for instance, characters can be used as integers.

- Complex functionality such as I/O, string manipulation, and mathematical functions are easy to implement with library routines.

About C++

- C++ is a statically typed, free-form, compiled, general-purpose programming language. It was developed by Bjarne Stroustrup starting in 1979, at Bell Labs.

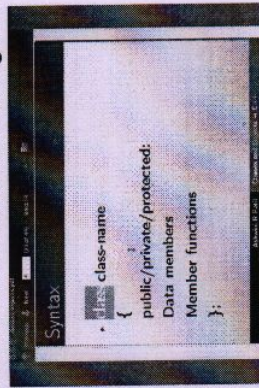- It adds object-oriented features such as classes, and other enhancements to the C programming language.

The language began as enhancements to C, first adding classes, then virtual functions, operator overloading, multiple inheritances, templates, and exception handling among other features.

- C++ is also one of the most popular programming languages and can be implemented on most hardware and OS platforms.

- As an efficient compiler to native code, its application domains include:

- Systems software
- Application software
- Device drivers
- Embedded software
- High-performance server and client applications
- Entertainment software like video games

Features

- Classes: By using classes, we can create user-defined data types. A class is the collection of a set of data and code. An object is the instance of a class.

- Inheritance: Allows one data type to acquire properties of other data types. This provides the idea of reusability, that means we can add new features to an existing class without modifying it.

- Data Abstraction and Encapsulation: Encapsulation means hiding data from the data structures. Here, the data is accessible to only the functions that are allowed to access it. Abstraction means representing essential features without including background details.

- Polymorphism: means one interface can be used for multiple implementations, so that object can behave differently for each implementation.

- Dynamic Binding: At runtime, the code matching the object under the current reference will be called.

C and C++ Advantages

- Powerful and flexible: C/C++ are used for developing operating systems, compilers, parsers, interpreters, word processors, search engines and graphic programs.

- Support: C requires less runtime support

- Portable programming language: A variety of C/C++ programm written for one computer system can be compiled and run on another system, with little or no change.

- Modular: Written in routines called functions and classes (C++), programs can be used in other applications or programs.

- Preferred by professional programmers: A variety of C/C++ resources and helpful supports are widely available.

- Standardised: Many standards have been documented, maintained and updated for C and C++ as standard references.

Instruction Sheet for C and C++
Spoken Tutorial Team
IIT Bombay

1 Online / Offline content

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2. You can also download the Spoken Tutorials for offline learning from :
https://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the commands shown in the video, as explained in the "Side-by-Side learning" video.

4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 C and C++

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "C-and-CPP".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. Start with the first tutorial in the displayed list.

4 First tutorial: First C Program

1. Locate the topic "First C Program" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practise in parallel.

4.1 Instructions to practise on Linux OS

I) How to learn from the tutorials

(a) The tutorials are explained on the Linux OS.

(b) It will be easy for Linux users to follow, as instructed in the tutorial.

II) Gedit Text Editor

(a) The commands are typed in gedit Text Editor on the Linux OS.

(b) The version of gedit that you are using will be different from the version used in the tutorials. Hence, it is expected to see some differences between the tutorial and the actual gedit interface that you will be using.

4.2 Instructions to practise on Windows OS

I) How to use Command Prompt

(a) At 0:55 mins, pause the video.

(b) Here the video shows how to open the "Terminal" in Linux OS.

(c) On Windows, one has to use "Command Prompt".

(d) To open the "Command Prompt" on Windows, press the "Windows" key and "R" key simultaneously on your keyboard. It will open the "Run" prompt.

(e) At the prompt, type "cmd" and click on "Ok".

(f) This will open the "Command Prompt".

(g) Now resume the video.

II) How to use Notepad++

(a) At 1:10, pause the video.

(b) Here the video shows how to open "gedit" text editor in Linux OS.

(c) On Windows, one has to use "Notepad++" text editor.

(d) Notepad++ can be opened from Start >> Applications >> Notepad++.

(e) Type the program code as shown in the tutorial in "Notepad++" text editor.

(f) Now resume the video.

III) How to compile and execute

(a) At 6:50, pause the video.

(b) Here the video shows how to execute the program in Linux OS.

(c) To run the program after compilation in Windows OS, type myoutput.exe instead of ./myoutput

4.3 Common instructions for Assignments

(a) At the prompt, type cd Desktop/ and press "Enter".

(b) Now type mkdir name-rollno-c-cpp and press "Enter".
(Eg. mkdir Ashwini-1-c-cpp)

(c) This will create a folder with your "name" and "rollno" on the Desktop.

(d) Type cd name-rollno-C++ and press "Enter".
(Eg. cd Ashwini-1-c-cpp)

(e) This will take you to that particular folder.

(f) Give a unique name to the files you save in your folder, so as to recognize it next time.
(Eg. "Practice-01-c")

(g) Remember to save all your work in your directory.

(h) This will ensure that your files don't get over-written by someone else.

(i) Remember to save your work from time to time, instead of saving it at the end of the task.

(j) Attempt the Assignments as instructed in the tutorial.

(k) Save your work in your folder.

4.4 Common instructions to use Code files

(a) Click on the link "Code files" located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Remember to change the path to this directory after opening the terminal.

(e) Then use these files as per the instructions given in the particular tutorial.

6. Play-pause-practise the whole tutorial.

7. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

8. Follow all the above instructions, till you complete all the tutorials in the series.

5 Eighth tutorial: Increment and Decrement Operators

1. At 7:57 printf statement shows printf("Value of c is %f/n", c)

2. It should be read & typed as printf("Value of c is %.2f/n", c)

3. This is shown at time 8:15

6 Twelfth tutorial: Loops

1. At 9:33, A code is executed which goes into an infinite loop.

2. To terminate the loop, press Ctrl + C keys simultaneously on the keyboard.

7 Twentieth tutorial: File handling in C

1. At 2:20 & 4:19, the path to store sample.txt file is mentioned.

2. If typed as given, this path will give you an error on your machine.

3. Instead of the path shown in the video, choose the path as per the directories in your system.

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Department of Information Technology

Registered List of Students - C and CPP (2019-20)

S.No.	Roll No.	Name
1	18911A1214	LEELA KRISHNA BANDARU R R
2	18911A1220	ANUSHA DHULLIPALLA
3	18911A1232	HEMANVITHA KANISETTY
4	18911A1210	ANNAMANENI SAI NIKHIL
5	18911A1207	ALAPARTHI RADHA SREE
6	18911A1236	ANUHYA KOTHA
7	18911A1237	KOTTE PRUDHVIDHAR RAO
8	18911A1228	K LIKITHA
9	18911A1230	KALA MEHER NIDHI
10	18911A1234	KOKANTI SANTHOSH KUMAR
11	18911A1203	AHMED ABDUL WAHED
12	18911A1235	KOREGILLA PRAVEEN KUMAR
13	18911A1201	ABHISHEK RAJ CHOWDARY
14	18911A1254	BINDU SREE VEERAVALLI

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List of Students Registered - Linux(2019-20)

S.No.	Roll No.	Name
1	17911A1201	ADDI SANJANA
2	17911A1206	B TARINI
3	17911A1221	K SHASHANK
4	17911A1225	SOMESH SAI K
5	17911A1227	HEMANTH K
6	17911A1227	KONDURI SAIVARDHAN
7	17911A1235	MOHAMMED FURQAN
8	17911A1241	PATLURI PALLAVI
9	17911A1243	PENDOTA SOWMYA SREE
10	17911A1246	SANIKOMMU BHARADWAJ REDDY
11	17911A1253	TURPU POOJA
12	17911A1255	V BHARATH SAI
13	17911A1256	VILASAGARAM SAIRAM
14	17911A1257	VORSU SWATHI
15	17911A1258	VUKKALKER NANDINI
16	17911A1232	MACHUGARI AKILA
17	17911A1208	PRANITHA RAO
18	17911A1237	AARTHI MYADAM
19	17911A1214	GINNE ABHINAYA SRI
20	17911A1203	ANUMU VENKATARAMANA
21	17911A1254	VANGA YAMUNA
22	17911A1205	BEERAM PRIYA
23	17911A1248	SREESHMA REDDY
24	17911A1220	KIRAN K
25	17911A1213	GIDDALAPATI VAISHNAVI REDDY
26	17911A1234	MOHAMMED ALI
27	17911A1251	ABHISHEK ABHI
28	17911A1202	SAGAR AMUNDLA
29	17911A1223	KALYAN GOURU
30	17911A1218	JOGENDRA JSVS
31	17911A1243	POGULA SAI PUNEETH
32	17911A1229	KONDURU SHIVANI
33	17911A1233	ANIL REDDY
34	17911A1259	APARNA YANDAPALLI
35	17911A1209	EKKALADEVI SRINIVAS SANJANA
36	17911A1245	SAI HARISH
37	17911A1226	VIVEK KIRAN KATARAM
38	17911A1231	M P SOUNDARYA
39	17911A1219	JATOTH PAVAN KUMAR
40	17911A1224	VISHAL KARNE
41	17911A1215	GINUKALA PHANINDAR
42	17911A1216	MANISH KUMAR YADAV
43	16911A1255	SUSHMA GUDA

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The Spoken Tutorial project

- Self explanatory - uses simple language
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- Small duration - has better retention
- Learner-centered - learn at your own pace
- Learning by doing - learn and practice simultaneously
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- Research scholars
- Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on Linux, Ubuntu and other FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to
contact@spoken-tutorial.org

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Ministry of Human Resource
Development,
Government of India

Contact us

Email: contact@spoken-tutorial.org

Website: http://spoken-tutorial.org

IIT Bombay

SPOKEN TUTORIALS

Linux
+
Ubuntu

National Mission on Education through
Information and Communication Technology
(NMEICT)
www.sakshat.ac.in

http://spoken-tutorial.org

What makes Linux endearing to users? Linux consists of the kernel, libraries, and various applications. Each distribution of Linux is a different combination of these elements. And Ubuntu has found the favour of several users making it the most popular.

What is Ubuntu Linux?

Ubuntu is an ancient African word meaning 'humanity to others'. It also means 'I am what I am because of who we all are'. The Ubuntu Linux operating system brings the spirit of Ubuntu to the world of computers.

Ubuntu is one of the latest and most widely downloaded distributions of Linux. It is the most popular flavor of Linux.

So, what are the benefits of Linux and Ubuntu?

1. **Freeware software:** One of the greatest advantages of Linux OS is that it is free of cost; it does not include any paid subscriptions, paid premium editions, or extra paid software. There is very little maintenance cost and it is easy to run and maintain. Further, if you just want to check out the Linux OS, you have the option to boot from a CD, without installation, and try out the Linux experience.

2. **Manageability:** Linux is easy to manage, starting right from its installation, startup, shutdown, initialization, and package management. It is simple to deploy and you can complete a typical installation of the standard services within 15 minutes. Also, it does not include any additional extraneous applications, making it fast and efficient.

3. **Easy to upgrade and update:** The Linux OS is easy to install and upgrade to obtain the latest features. Also, the process of obtaining updates is eased through the Debian and APT packaging, which makes the introduction of new software easy and smooth.

4. **Security:** Linux is hard-to-hack. To add to that, the frequent updates ensure that any further security risks are also eliminated.

5. **Vast source of online help:** There are little chances of getting stuck while installing or working with Linux. This is because of a large source of online help available for any issue related to Linux.

6. **User-friendly:** Ubuntu is user-friendly and easily available. It can also be easily installed. Ubuntu is one OS, currently being considered as the best bet for those struggling and considering moving away from Windows OS. Ubuntu is a clear indication that users are beginning to accept Linux as a better OS. Whether it is for personal use, for your organization or for propagating computer education among your community, Linux is the ideal choice. Its secure environment, user-friendliness and above all its ease of installation, makes it the most favoured OS among most users.

7. **Add-ons:** Linux is free and requires no costly add-ons. Download Linux from the Internet and install it on as many machines as you want. The same is true of most Linux application software.

So, why Linux?

Support
Ubuntu & Linux are the best supported operating systems of all time. You can get help from tens of thousands of active Linux users and programmers from all over the world, at any time.

Multi-platform
Windows is limited to Intel and Intel-compatible processors and only certain machine architectures. Linux and other Unix-compatible operating systems work on a wide variety of processors and machine architectures.

Open Protocols
Linux uses open protocols. There are no proprietary protocols that lock you. Monopolies do not exist in the Linux world.

With Linux, you can

- Browse the internet with Mozilla Firefox browser – easier, safer and faster, less susceptible to virus infections.
- Do office activities with LibreOffice Suite-a complete suite for document creation, spreadsheet, presentation, design and database. It supports all formats including MS-Word, MS-Excel, MS-Powerpoint.
- Program using Java, Python, C/C++, Shell-script, PHP & MySQL and many more.
- Create graphic designs using GIMP, Inkscape – for photo retouching, image composition and image authoring (equivalent to Photoshop).
- Use multimedia players like VLC, Movie Player for music and videos.

Do all of these & more without purchasing expensive commercial software. Use the Ubuntu Software Centre facility to download any software.

LINUX

Course Outcomes:

After completing this course the student must able to

1. Understand and make effective use of Linux utilities.

2. Able to write shell scripts to solve the problems.

3. Develop the skills necessary for file system and directory handling.

4. Learn the concepts of process and signal system calls.

5. Implement inter process communication mechanisms.

1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
   http://spoken-tutorial.org/tutorial-search/

2. You can also download the Spoken Tutorials for offline learning from :
   http://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

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3 Linux

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Linux".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. Start with the first tutorial in the displayed list.

4 First tutorial: Ubuntu Desktop 16.04

1. Locate the topic "Ubuntu Desktop 16.04" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments and Code Files are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6. This tutorial is created on Ubuntu Linux version 16.04.

7. You will notice some difference in the interface, in later versions of Ubuntu.

8. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

5 Second Tutorial: Desktop Customization 16.04

1. Locate the topic "Desktop Customization 16.04" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. This tutorial explains how to customise the Desktop of "Ubuntu Linux 16.04".

4. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

6 Third Tutorial: Installing Software 16.04

1. Locate the topic "Installing Software 16.04" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. "Installing Software 16.04" tutorial explains how to install various software on "Ubuntu Linux 16.04".

4. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

7 Instructions to practise the remaining tutorials

1. The remaining tutorials are explained using the Linux Terminal.

2. The commands shown will work on all versions of Ubuntu Linux .

3. To open the "Terminal", press the "CTRL, Alt and T" keys simultaneously on the keyboard.

4. Follow all the instructions given in the individual tutorials and reproduce all the commands as shown.

7.1 Common instructions for Assignments

(a) Attempt the Assignments as instructed in each tutorial.

(b) Save your work in your folder.

7.2 Common instructions to use Code files

(a) Click on the link "Code files" located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in that particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

5. Play-pause-practise the whole tutorial.

6. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

7. Follow all the above instructions, till you complete all the tutorials in the series.

8 Seventh Tutorial: Working with Regular Files

1. At 1:49, the video tells to open a file named "test1.sh"

2. Pause the tutorial and click on the "Code Files" link.

3. Download, unzip and extract the content from the downloaded zip file into a new directory.

4. Go to that new directory.

5. Use the file named "test1.sh" and resume the video.

6. Else you will encounter an error "No such file or directory".

7. At 2:52 and 3:31, the video shows a path.

8. In your machine, the path will be /home/your-username

9 Eighth Tutorial: File Attributes

1. At 2:18 and 11:03, the video shows how to change owner and group.

2. Skip this because you may not have other users or groups in your machine.

10 Ninth Tutorial: Redirection Pipes

1. At 4:12, the video tells to open a file named "test1.sh"

2. Pause the tutorial and click on the "Code Files" link.

3. Download, unzip and extract the content from the downloaded zip file into a new directory.

4. Go to that new directory.

5. Use the file named "test1.sh" and resume the video.

6. Else you will encounter an error "No such file or directory".

11 Twelfth Tutorial: Basics of System Administration

1. At 11:15, the video tells to type cd /home

2. You have to type cd /home/your-username

Certificate of Participation

This is to certify that **LEELA KRISHNA BANDARU R R** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ANUSHA DHULLIPALLA** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 9th 2019

Prof. Kannan M Moudgalya
Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

Spoken Tutorial Project at IIT Bombay

This is to certify that **HEMANVITHA KANISETTY** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

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This is to certify that **ANNAMANENI SAI NIKHIL** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

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This is to certify that **ALAPARTHI RADHA SREE** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

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IIT Bombay

This is to certify that **ANUHYA KOTHA** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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This is to certify that **KOTTE PRUDHVIDHAR RAO** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **K Likitha** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **KALA MEHER NIDHI** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

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IIT Bombay

Certificate of Participation

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This is to certify that **KOKANTI SANTHOSH KUMAR** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

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This is to certify that **AHMED ABDUL WAHED** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **KOREGILLA PRAVEEN KUMAR KOREGILLA PRAVEEN KUMAR** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

Prof. Kannan M Moudgalya
IIT Bombay

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This is to certify that **ABHISHEK RAJ CHOWDARY** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

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IIT Bombay

Certificate of Participation

This is to certify that **BINDU SREE VEERAVALLI** participated in the **C and Cpp** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

September 9th 2019

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IIT Bombay

Certificate of Participation

This is to certify that **ADDI SANJANA** participated in the **Linux AWK** training organized at

Vidya Jyothi Institute Of Technology in **July 2019** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

This is to certify that **B TARINI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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This is to certify that **K SHASHANK** participated in the **Linux AWK** training organized at

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provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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Certificate of Participation

This is to certify that **SOMESH SAI K** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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Certificate of Participation

This is to certify that **HEMANTH K** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

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Certificate of Participation

This is to certify that **KONDURI SAIVARDHAN** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

This is to certify that **MOHAMMED FURQAN** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

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This is to certify that **PATLURI PALLAVI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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Certificate of Participation

This is to certify that **PENDOTA SOWMYA SREE** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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This is to certify that **SANIKOMMU BHARADWAJ REDDY** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

This is to certify that **TURPU POOJA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **V BHARATH SAI** participated in the **Linux AWK** training organized at

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A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **VILASAGARAM SAIRAM** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **VORSU SWATHI** participated in the **Linux AWK** training organized at

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A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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Certificate of Participation

This is to certify that **VUKKALKER NANDINI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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This is to certify that **MACHUGARI AKILA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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Certificate of Participation

This is to certify that **PRANITHA RAO** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **AARTHI MYADAM** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **GINNE ABHINAYA SRI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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This is to certify that **ANUMU VENKATARAMANA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **VANGA YAMUNA** participated in the **Linux AWK** training organized at

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Certificate of Participation

This is to certify that **BEERAM PRIYA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

This is to certify that **SREESHMA REDDY** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

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Certificate of Participation

This is to certify that **KIRAN K** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

Certificate of Participation

This is to certify that **GIDDALAPATI VAISHNAVI REDDY** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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Certificate of Participation

This is to certify that **MOHAMMED ALI** participated in the **Linux AWK** training organized at

Vidya Jyothi Institute Of Technology in **July 2019** semester, with course material

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This is to certify that **SAGAR AMUNDLA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KALYAN GOURU** participated in the **Linux AWK** training organized at

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This is to certify that **JOGENDRA JSVS** participated in the **Linux AWK** training organized at

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This is to certify that **POGULA SAI PUNEETH** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KONDURU SHIVANI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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Certificate of Participation

This is to certify that **ANIL REDDY** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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This is to certify that **APARNA YANDAPALLI** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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IIT Bombay

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This is to certify that **EKKALADEVI SRINIVAS SANJANA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Linux AWK** were covered in the training.

September 21st 2019

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IIT Bombay

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IIT Bombay

Certificate of Participation

This is to certify that **SAI HARISH** participated in the **Linux AWK** training organized at

Vidya Jyothi Institute Of Technology in **July 2019** semester, with course material

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September 21st 2019

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Certificate of Participation

This is to certify that **VIVEK KIRAN KATARAM** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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IIT Bombay

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This is to certify that **M P SOUNDARYA** participated in the **Linux AWK** training organized at

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September 21st 2019

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This is to certify that **JATOTH PAVAN KUMAR** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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IIT Bombay

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This is to certify that **VISHAL KARNE** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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This is to certify that **GINUKALA PHANINDAR** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MANISH KUMAR YADAV** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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This is to certify that **SUSHMA GUDA** participated in the **Linux AWK** training organized at **Vidya Jyothi Institute Of Technology** in **July 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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September 21st 2019

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Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2019-20/2

Date: 09-07-2019

CIRCULAR

The Department of Information Technology in association with CISCO Networking Academy is planning to organize certification course on **"Programming Essentials in Python"** for the benefit of II & III B.Tech (Semester-I) students. This could be scheduled from 17th July 2019 – 30th October 2019 with 70 hours duration. The interested students can enroll for the course by 13-07- 2019.

All the registered students must attend the classes and solve all the assignments without fail. The following faculty members are assigned to handle the course as instructors.
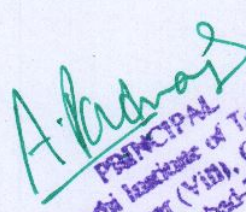
S.No.	Name	Designation
1	Mr. B Eswar Babu	Associate Professor
2	Mrs. Laxmi Hugar	Assistant Professor

Students who have completed the course successfully with 65% only get the certificate from Python Institute, Open education and Development group.

HoD

Copy to:
1. The Principal Office
2. Notice Board
3. II & III B.Tech Students

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post.
Hyderabad-75.

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Department of Information Technology

Programming Essentials in Python

Course Outcomes:
After completing this course the student must able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

PART 1: BASICS

Basics I

Your First program, The print() function – how the computer talks to you, The print() function – formatting the output

Python literals – integers, floats, strings, Boolean values

Operators - Data manipulation tools, Operators and expressions, Arithmetic operators, Operators and their priorities, Operators and their bindings

Variables – data-shaped boxes, how to name them, Variable names vs. Python keywords, How to assign a variable, How to comment your code, Shortcut operators

How to talk to computer - Output vs. input, How to input data with the input() function, How to convert strings into numbers, Some simple interactive programs, String operators, How to convert numbers into strings

Basics II

Making decisions in Python - How to ask questions and how to get answers, Relational operators

Making use of the answers, Conditions and conditional execution – the if statements, How indentation makes the code, the more conditional execution – if-else statements, the elif clause, some simple examples

Python's loops - Looping your code with while, Looping your code with for, Controlling your loops with break and continue

Logic and bit operations in Python - Computer logic and its operators, Logical values vs. single bits, Bitwise operators, How to deal with single bits

Lists – collections of data - why do we need them so much? How to create a list, How to use a list, Removing elements from a list, How not to use a list, List methods – methods vs. functions, Adding elements to lists, Making use of lists, The second face of the for loop, Lists in action

Sorting simple lists – the bubble sort algorithm

Lists – some more details - How lists are stored, Slices – the powerful tools, The in and not in operators, Lists in advanced applications, Lists in lists, The list comprehension: why and how, Lists in lists – matrices, 3rd dimension

Basics III

Writing functions in Python - Functions: why do we need them? Where do functions come from? Your first function

How functions communicate with their environment - Parametrized functions, How to define and use function parameters, What is shadowing? Positional arguments, Keyword arguments, Mixed arguments, Setting parameters' default values

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Returning a result from a function - A function's effects and results – the return statement, Returning a value, The None value, Returning the non-None value, Argument vs. parameter compatibility, A list as a function's result

Scopes in Python - Functions and scopes, How do scopes work? How to make a variable global, How the parameters interact with their arguments

Creating functions - Some exercises with designing and writing functions, Recursion – how to make a function more powerful?

Tuples and dictionaries - Sequence types and mutability, What is a tuple? How to create a tuple, How to use a tuple, What is a dictionary? How to make a dictionary, How to use a dictionary, How a dictionary and a tuple can work together

PART 2: INTERMEDIATE

Intermediate I

Using modules - What is a module? How to make use of a module? Importing a module

Some useful modules - Working with standard modules, some functions from the math module, Some functions from the random module, Some functions from the platform module

What is a package? - Modules and packages, Your first module, Your first package

Errors – a programmer's daily bread - Errors, failures, and other plagues, Exceptions

The anatomy of an exception

Some of the most useful exceptions

Characters and strings vs. computers

The nature of Python's strings

String methods

Strings in action - Comparing strings, Sorting strings, and not only strings, Strings vs. numbers

Four simple programs - Caesar's cipher – the coder, the decoder, Extracting numbers from a line of text, Checking the IBAN

Intermediate II

Basic concepts of object programming - What is an object? The object – what is it again? What does an object have? Your first class

A short journey from the procedural to the object approach - What is a stack? The stack – a procedural approach, The stack from scratch

Properties - Properties in detail, Instance variables, Class variables, Checking an attribute's existence

Methods - Methods in detail - The inner life of classes and objects, Reflection and introspection – two names of the same phenomenon, Investigating classes – what can we find out about them?

Inheritance – one of object programming foundations - How Python finds properties and methods, How to build a hierarchy of classes, Inheritance vs. composition, Single inheritance vs. multiple inheritance, Diamonds and why you don't want them

Exceptions once again - Exceptions are classes, Detailed anatomy of an exception, How to create our own exception, How to use your own exception

Generators and closures - Generators – where to find them, The yield statement, How to build your own generator, More about list comprehensions, The lambda function, How and when to use lambdas

Processing files - Accessing files from Python code, File names, File streams, File handles, Opening the streams, Selecting text and binary modes, Opening the stream for the first time, Pre-opened streams, Closing streams, Diagnosing stream problems

Working with real files - Dealing with text files, How to work with binary files, How to read bytes from the stream, How to write bytes from the stream, Copying files – a simple, but functional tool

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in Python"

List of Registered Students(2019-20)

S.No.	ROLL NO.	NAME OF THE STUDENT
1	18911A1201	ABHISHEK RAJ CHOWDARY
2	18911A1202	ADLURI SHIVANI
3	18911A1203	AHMED ABDUL WAHED
4	18911A1204	AITHA SAI NEERAJ
5	18911A1205	AITOLLA VENKATESH
6	18911A1206	AKSHAT DALMIA
7	18911A1207	ALAPARTHI RADHA SREE
8	18911A1209	ANDOLE KRISHNAM RAJ DEEKSHIT RAJ
9	18911A1210	ANNAMANENI SAI NIKHIL
10	18911A1211	APOORVA GANGYADA
11	18911A1212	ASKA RACHEL NIHARIKA
12	18911A1213	B ANOJ
13	18911A1214	BANDARU R R LEELA KRISHNA
14	18911A1215	BARLAPALLY SAI KIRAN REDDY
15	18911A1216	BOLLA HARSHAVARDHAN
16	18911A1217	CHAMALA SRISHA REDDY
17	18911A1218	CHANDAN VARDHAN V
18	18911A1220	DHULIPALLA ANUSHA
19	18911A1221	EMMADI SAI SRIVANI
20	18911A1223	GADDAM UDAYASRI
21	18911A1224	GANGULA SAI NANDAN REDDY
22	18911A1225	PULUGUJJU SRIMAN
23	18911A1226	H NANDINI SINGH
24	18911A1227	K JANAKI RAM
25	18911A1228	K LIKITHA
26	18911A1230	KALA MEHER NIDHI
27	18911A1231	KANDHIPATI KARTHIK
28	18911A1232	KANISETTY HEMANVITHA
29	18911A1233	KANTALE KRISHNA PATIL
30	18911A1234	KOKANTI SANTHOSH KUMAR
31	18911A1235	KOREGILLA PRAVEEN KUMAR
32	18911A1236	KOTHA ANUHYA
33	18911A1237	KOTTE PRUDHVIDHARRAO
34	18911A1239	MUCHINTALABODIGALA NAVYA
35	18911A1240	N VARUNTEJ
36	18911A1241	NRUTHYA PRIYA KATURI
37	18911A1242	PACCHA ODAKAI SEJAL VIKRAM
38	18911A1243	POTLA HARINI
39	18911A1244	POTU SAINATH REDDY
40	18911A1245	PUCHAKAYALA NITHISH REDDY
41	18911A1246	PULIMAMIDI DIVYA
42	18911A1248	RAJA BABU
43	18911A1249	SAMPATH REDDY P
44	18911A1250	SANDAPETA ARUN KUMAR

PRINCIPAL
Vidya Jyothi Institute of Technology
Hmayatnagar (Vill), C B. Post
Hyderabad-75.

Vidya Jyothi Institute of Technology

Department of Information Technology

45	18911A1251	SANGEETH GILDA
46	18911A1253	TAKKAN GEETHANJALI
47	18911A1254	VEERAVALLI BINDU SREE
48	18911A1255	VELLA LIKHITHA
49	18911A1256	VISWAKARMA RAJ NANDINI
50	18911A1257	VODINEPALLY SURYA PRAKASH
51	18911A1259	YERRA SAI MANISHA
52	18911A1260	VASH SAMBA RAJU
53	19915A1206	POTHUGANTI ACHYUTH

HoD

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post,
Hyderabad-75.

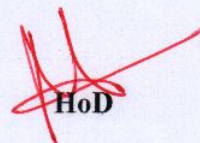# Vidya Jyothi Institute of Technology

(An Autonomous Institution)

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in Python"
List of Students successfully completed the course

S.No.	ROLL NO.	NAME OF THE STUDENT
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42	19915A1206	POTHUGANTI ACHYUTH

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatsagar (Vill), C. B. Post
Hyd-500-75.

HoD

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Abhishek Raj Chowdary

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

21 Oct, 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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shivani adluri
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
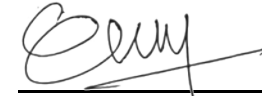Academy Name

India
Location

28 Oct 2019
Date

ESWAR BABU BANALA
Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Abdul Wahed

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

21 Oct, 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Sai Neeraj Aitha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Dec 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Akshat Dalmia

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

22 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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radhasree alaparthi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Sep, 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Annamaneni Sai Nikhil

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
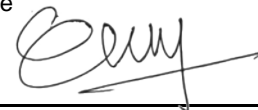
Academy Name

India

Location

ESWAR BABU BANALA

Instructor

21 Sep, 2019

Date

Instructor Signature

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PCAP: Programming Essentials in Python

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apoorva gangyada

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
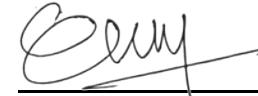
Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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Aska Rachel Niharika

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
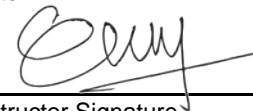
Academy Name

India

Location

18 Dec 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Anoj B

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

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Leela krishna Bandaru

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

22 Sep, 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Harsha vardhan Bolla

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

19 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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chamala srishareddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

14 Oct, 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

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Anusha Dhullipala

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

19 Sep, 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

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Srivani Emmadi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

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gaddam udayasri

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Dec 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Hardiya Nandini Singh

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

21 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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K JANAKI RAM

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

23 Nov 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Likitha Katta

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- the syntax and semantics of the Python language;
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Kala Meher Nidhi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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karthik Kandhipati

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Hemanvitha Kanisetty

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

7 Oct, 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Kokanti Santhosh kumar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

22 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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koregilla praveen kumar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

PCAP: Programming Essentials in Python

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kotha anuhya

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

5 Oct, 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
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Prudhvidhar rao Kotte

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

19 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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N Varun Tej

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

31 Dec 2019

Date

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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katuri priya

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Sejal vikram

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

22 Oct 2019

Date

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

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potla harini
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

22 Oct, 2019
Date

ESWAR BABU BANALA
Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Sainath reddy Potu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

13 Dec 2019

Date

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

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Divya Pulimamidi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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raja babu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

21 Oct, 2019

Date

Instructor Signature

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Arun Kumar Sandapeta

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

31 Dec 2019

Date

Instructor Signature

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Sangeeth Gilda

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

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PCAP: Programming Essentials in Python

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Takkan Geethanjali

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

28 Oct 2019

Date

Instructor Signature

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PCAP: Programming Essentials in Python

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veeravalli bindusree

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Oct 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

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vella Likhitha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

17 Dec 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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RAJ NANDINI VISWAKARMA

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
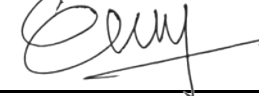
Academy Name

India

Location

ESWAR BABU BANALA

Instructor

23 Sep, 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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yerra saimanisha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Oct 2019

Date

Instructor Signature

ESWAR BABU BANALA

Instructor

Statement of Achievement

PCAP: Programming Essentials in Python

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- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Vash Sambaraju

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

21 Oct, 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Achyuth Pothuganti

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

19 Dec 2019

Date

Instructor Signature

Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2019-20 /3
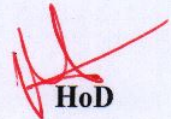
Date: 10-12-2019

CIRCULAR

The Department of Information Technology in association with CISCO Networking Academy is planning to conduct certification course on "Programming Essentials in C++" for the benefit of II B.Tech students. This is scheduled from 14/12/2019 – 30/04/2020 with 70 hours duration. The interested students can enroll for the course by 12/12/2019.
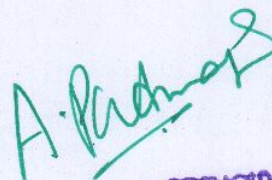
All the registered students must attend the classes without fail. B Eswar Babu, Associate Professor is assigned to handle the course as instructor.

Students who have completed the course successfully with 65% will only get the certificate by Cisco Networking Academy in collaboration with OpenEDG C++ Institute

HoD

Copy to:

1. The Principal Office
2. Notice Board
3. II B.Tech Students

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C. B. Post.
Hyderabad-73.

Vidya Jyothi Institute of Technology

Department of Information Technology

Programming Essentials in C++

After completing this course the student must able to
1. Describe importance concepts of Object Oriented Programming
2. Develop the applications using Object Oriented Programming through C++
3. Implements the concepts of inheritance and polymorphism
4. Apply the IO Streams and files to develop a program for real time problems
5. Apply advanced features like templates and exception handling to make programs supporting reusability and sophistication

C++ Essentials - Part 1: BASICS

Module 1 - Introduction to computer programming, variables, comments, basic I/O operations, flow control (if)

Module 2 - Advanced flow control (if, else, switch; loops) and data aggregates

Module 3 - Extending expressive power: pointers, functions, and memory

Module 4 - Accessing data: arrays of pointers, conversions, strings, namespaces, and exceptions External tool

C++ Essentials - Part 2: INTERMEDIATE

Module 1 - Object-oriented programming essentials (classes, objects, inheritance)

Module 2 – Inheritance External tool

Module 3 – Exceptions External tool

Module 4 - Operators and enumerated types

PRINCIPAL
Vidya Jyothi Institute of Technology
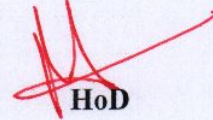Himayatnagar (Vill), C. B. Post.
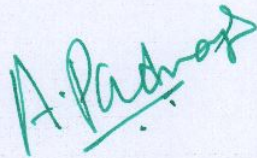Hyderabad-75.

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in C++"

List of Registered Students

1	18911A1201	ABHISHEK RAJ CHOWDARY
2	18911A1202	ADLURI SHIVANI
3	18911A1203	AHMED ABDUL WAHED
4	18911A1204	AITHA SAI NEERAJ
5	18911A1205	AITOLLA VENKATESH
6	18911A1206	AKSHAT DALMIA
7	18911A1207	ALAPARTHI RADHA SREE
8	18911A1209	ANDOLE KRISHNAM RAJ DEEKSHIT RAJ
9	18911A1210	ANNAMANENI SAI NIKHIL
10	18911A1211	APOORVA GANGYADA
11	18911A1212	ASKA RACHEL NIHARIKA
12	18911A1213	B ANOJ
13	18911A1214	BANDARU R R LEELA KRISHNA
14	18911A1215	BARLAPALLY SAI KIRAN REDDY
15	18911A1216	BOLLA HARSHAVARDHAN
16	18911A1217	CHAMALA SRISHA REDDY
17	18911A1218	CHANDAN VARDHAN V
18	18911A1220	DHULIPALLA ANUSHA
19	18911A1221	EMMADI SAI SRIVANI
20	18911A1223	GADDAM UDAYASRI
21	18911A1224	GANGULA SAI NANDAN REDDY
22	18911A1225	PULUGUJJU SRIMAN
23	18911A1226	H NANDINI SINGH
24	18911A1227	K JANAKI RAM
25	18911A1228	K LIKITHA
26	18911A1230	KALA MEHER NIDHI
27	18911A1231	KANDHIPATI KARTHIK
28	18911A1232	KANISETTY HEMANVITHA
29	18911A1233	KANTALE KRISHNA PATIL
30	18911A1234	KOKANTI SANTHOSH KUMAR
31	18911A1235	KOREGILLA PRAVEEN KUMAR
32	18911A1236	KOTHA ANUHYA
33	18911A1237	KOTTE PRUDHVIDHARRAO
34	18911A1239	MUCHINTALABODIGALA NAVYA
35	18911A1240	N VARUNTEJ
36	18911A1241	NRUTHYA PRIYA KATURI
37	18911A1242	PACCHA ODAKAI SEJAL VIKRAM
38	18911A1243	POTLA HARINI
39	18911A1244	POTU SAINATH REDDY
40	18911A1245	PUCHAKAYALA NITHISH REDDY
41	18911A1246	PULIMAMIDI DIVYA
42	18911A1248	RAJA BABU
43	18911A1249	SAMPATH REDDY P

PRINCIPAL

Vidya Jyothi Institute of Technology

Himayatnagar (Vill), C.B. Post

Hyderabad-75,

Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

44	18911A1250	SANDAPETA ARUN KUMAR
45	18911A1251	SANGEETH GILDA
46	18911A1253	TAKKAN GEETHANJALI
47	18911A1254	VEERAVALLI BINDU SREE
48	18911A1255	VELLA LIKHITHA
49	18911A1256	VISWAKARMA RAJ NANDINI
50	18911A1257	VODINEPALLY SURYA PRAKASH
51	18911A1259	YERRA SAI MANISHA
52	18911A1260	VASH SAMBA RAJU
53	19915A1202	B SHIREESHA
54	19915A1203	L VISHWANTH
55	19915A1204	L KUSHAL
56	19915A1205	MOHD RABBANI
57	19915A1206	P ACHYTH
58	17911A1247	SUMANTH REDDY

HoD

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C B. Post,
Hyderabad-75.

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in C++"
<u>List of Students successfully completed the course</u>

1	18911A1202	ADLURI SHIVANI
2	18911A1203	AHMED ABDUL WAHED
3	18911A1207	ALAPARTHI RADHA SREE
4	18911A1210	ANNAMANENI SAI NIKHIL
5	18911A1211	APOORVA GANGYADA
6	18911A1212	ASKA RACHEL NIHARIKA
7	18911A1213	B ANOJ
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24	18911A1241	NRUTHYA PRIYA KATURI
25	18911A1242	PACCHA ODAKAI SEJAL VIKRAM
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35	18911A1255	VELLA LIKHITHA
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37	18911A1259	YERRA SAI MANISHA
38	18911A1260	VASH SAMBA RAJU
39	19915A1202	B SHIREESHA
40	19915A1203	L VISHWANTH
41	19915A1204	L KUSHAL
42	19915A1205	MOHD RABBANI
43	19915A1206	P ACHYTH

HoD

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
- the principles of the object-oriented model and its implementation in the C++ language,
- the means by which to resolve typical implementation problems with the aid of standard C++ language libraries,
- the writing of C++ programs using standard language infrastructure, regardless of the hardware or software platform.

This Statement of Achievement is to acknowledge that during the course CPA: Programming Essentials in C++, the student has been able to accomplish coding tasks related to the basics of programming in the C++ language, and understands the fundamental notions and techniques used in object-oriented programming.

By completing the course, the student is now ready to attempt the qualification CPA – C++ Certified Associate Programmer Certification, from the C++ Institute.

shivani adluri

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Apr 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- developer tools,
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Abdul Wahed

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

23 Apr 2020

Date

Instructor Signature

Statement of Achievement

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,

- developer tools,

- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,

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radhasree alaparthi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Mar 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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By completing the course, the student is now ready to attempt the qualification CPA – C++ Certified Associate Programmer Certification, from the C++ Institute.

Annamaneni Sai Nikhil

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

23 Apr 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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apoorva gangyada

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Apr 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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Aska Rachel Niharika

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

13 Mar 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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Anoj B

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Apr 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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Leela krishna Bandaru R R

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Apr 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

C++ Institute Authorized Academy Program

Program Your Future

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
- the principles of the object-oriented model and its implementation in the C++ language,
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By completing the course, the student is now ready to attempt the qualification CPA – C++ Certified Associate Programmer Certification, from the C++ Institute.

Harsha vardhan Bolla

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

23 Apr 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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chamala srishareddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Mar 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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Chandan Vardhan

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

23 Apr 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

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Anusha Dhullipala

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

13 Mar 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- developer tools,
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Srivani Emmadi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Mar 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

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- the universal concepts of computer programming,
- developer tools,
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Sriman p

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

8 Apr 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
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NANDINI SINGH

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

8 Apr 2020

Date

Instructor Signature

CPA: Programming Essentials in C++

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Likitha Katta

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

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Location

ESWAR BABU BANALA

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13 Mar 2020

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Instructor Signature

Statement of Achievement

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karthik Kandhipati

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Hemanvitha Kanisetty

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K krishna patil

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Kokanti Santhosh kumar

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koregilla praveen kumar

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kotha anuhya

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Prudhvidhar rao Kotte

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katuri priya

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Sejal vikram

Student

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potla harini

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Sainath reddy Potu

Student

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Divya Pulimamidi

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raja babu

Student

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Sampath Reddy

Student

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India

Location

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Instructor

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Arun Kumar Sandapeta

Student

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Sangeeth Gilda

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Takkan Geethanjali

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veeravalli bindusree

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vella Likhitha

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RAJ NANDINI VISWAKARMA

Student

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yerra saimanisha

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Vash Sambaraju

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Shireesha Buddhana

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Vishwanth Goud Ladhipeerla

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Kushal Reddy Lonka

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- the means by which to resolve typical implementation problems with the aid of standard C++ language libraries,
- the writing of C++ programs using standard language infrastructure, regardless of the hardware or software platform.

This Statement of Achievement is to acknowledge that during the course CPA: Programming Essentials in C++, the student has been able to accomplish coding tasks related to the basics of programming in the C++ language, and understands the fundamental notions and techniques used in object-oriented programming.

By completing the course, the student is now ready to attempt the qualification CPA – C++ Certified Associate Programmer Certification, from the C++ Institute.

Rabbani Mohammad

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

13 Mar 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

CPA: Programming Essentials in C++

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming,
- developer tools,
- the syntax and semantics of the C++ language, as well as basic data types in the C++ language,
- the principles of the object-oriented model and its implementation in the C++ language,
- the means by which to resolve typical implementation problems with the aid of standard C++ language libraries,
- the writing of C++ programs using standard language infrastructure, regardless of the hardware or software platform.

This Statement of Achievement is to acknowledge that during the course CPA: Programming Essentials in C++, the student has been able to accomplish coding tasks related to the basics of programming in the C++ language, and understands the fundamental notions and techniques used in object-oriented programming.

By completing the course, the student is now ready to attempt the qualification CPA – C++ Certified Associate Programmer Certification, from the C++ Institute.

Achyuth Pothuganti

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

13 Mar 2020

Date

Instructor Signature

Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2019-20 /4

Date: 30.12.2019

CIRCULAR

The Department of Information Technology will be conducting a value added course on **"Java J2EE Training"** for the benefit of III B.Tech students. This could be scheduled from **02.01.2020 – 30.03.2020**. The interested students should register for the course by 31.12. 2019.

All the registered students must attend the classes and solve all the assignments without fail. The following faculty members are assigned to handle the course as instructors.

S.No.	Name	Designation
1	Mrs. G Indira Priyadarshini	Associate Professor

HoD

Copy to:

1. The Principal Office
2. Notice Board
3. III B.Tech Students

PRINCIPAL
Vidya Jyothi Institute of Technology
Hussymunagar (VJB), C B. Post.
Hyderabad-73.

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Java J2EE Training

Course Outcomes:

After completing this course the student must able to

1. Create Web Applications using **Java** Servlet and Manage Web Session using Servlet and JSP.
2. Use JavaBeans in JSP, Develop Custom Tags in JSP.
3. Handle Errors and Exceptions in Web Applications.
4. Use NetBeans IDE for creating J2EE Applications

Module 1: Core Java – Data types, Variables, Control Statements, OOP – Classes, Objects, Encapsulation, Inheritance, Polymorphism, Exception Handling, Database Connectivity

Module 2: Introduction to Web – HTML, CSS, JavaScript

Module 3: Introduction to J2EE - What is J2EE? , What does j2ee comprise?

Module 4: Servlets - Servlet terminology, Servlet API, Generic Servlet, Http Servlet, Servlet Life Cycle, Session Tracking in Servlets, Servlet Collaboration, JDBC in servlet, Servlet Pagination

Module 5: JSP - JSP introduction, JSP with Life cycle, JSP API, Scripting elements, scriptlet tag, expression tag, declaration tag, Implicit Objects, Directive elements, page directive, include directive, taglib directive, Exception Handling, Action Elements, Expression Language, MVC in JSP, JSTL, Custom tags, JSP pagination, JDBC in JSP, Development in JSP

Module 6: EJB (Enterprise JavaBeans) - What is EJB, What is enterprise java beans (EJB) and what are the advantages of EJB?, Session Bean, The session bean represents the business logic, stateless, stateful or singleton, Stateless Session Bean, What is stateless session bean, its lifecycle and example, Stateful Session Bean, What is stateful session bean, its lifecycle and example.

Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Date: 02.01.2020

List of Registered Students – J2EE Training

SL NO	H.T. NO	NAME OF THE STUDENT
1	17911A1201	ADDI SANJANA
2	17911A1202	AMUNDLA SAGAR
3	17911A1203	ANUMU VENKATARAMANA
4	17911A1205	BEERAM PRIYA
5	17911A1206	BEERUKA TARINI
6	17911A1208	DESHINENI PRANITHA
7	17911A1209	EKKALADEVI SRINIVAS SANJANA
8	17911A1211	GADDAM JAGADEESH
9	17911A1212	GANJI NAGA SAI MAHITH
10	17911A1213	GIDDALAPATI VAISHNAVI
11	17911A1214	GINNE ABHINAYA SRI
12	17911A1215	GINUKALA PHANINDAR
13	17911A1216	GUDUGU MANISH KUMAR YADAV
14	17911A1218	J S V S JOGENDRA KAPGATE
15	17911A1219	JATOTH PAVAN KUMAR
16	17911A1220	K KIRAN
17	17911A1221	K SHASHANK
18	17911A1223	KALYAN GOURU
19	17911A1225	KATAM SOMESH SAI
20	17911A1226	KATARAM VIVEK KIRAN
21	17911A1227	KEETHA HEMANTH
22	17911A1228	KONDURI SAIVARDHAN
23	17911A1229	KONDURU SHIVANI
24	17911A1230	KOTHA CHIKITHA REDDY
25	17911A1231	M P SOUNDARYA
26	17911A1232	MACHUGARI AKILA
27	17911A1233	MAREDDY ANIL KUMAR
28	17911A1234	MOHAMMED ALI
29	17911A1235	MOHAMMED FURQAN
30	17911A1237	MYADAM AARTHI
31	17911A1238	NIKHIL KUMAR R

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

32	17911A1239	PAMULAPATI SAI CHAITANYA
33	17911A1240	PATLOLLA VINEETH REDDY
34	17911A1241	PATLURI PALLAVI
35	17911A1242	PENDOTA SOWMYA SREE
36	17911A1243	POGULA SAI PUNEETH
37	17911A1244	PRITHVI REDDY MANDALAPU
38	17911A1245	S SRI SAI HARISH
39	17911A1248	SREESHMA REDDY P
40	17911A1249	SUNIGANTI PRAVALIKA
41	17911A1250	T PAVAN YADAV
42	17911A1251	TANKASALA ABHISHEK
43	17911A1253	TURPU POOJA
44	17911A1254	VANGA YAMUNA
45	17911A1255	VEMULAPALLI BHARATH SAI
46	17911A1256	VILASAGARAM SAIRAM
47	17911A1257	VORSU SWATHI
48	17911A1258	VUKKALKER NANDINI
49	17911A1259	YANDAPALLI SREEPADMA APARNA
50	16911A1255	SUSHMA GUDA

HOD

PRINCIPAL
Vidya Jyothi Institute of Technology
Huumayatnagar (Vill), C.B. Post.
Hyderabad-75.

Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2019-20/5

Date: 30.12.2019
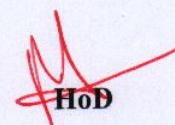
CIRCULAR

The Department of Information Technology in association with CISCO Networking Academy is planning to organize certification course on **"Programming Essentials in Python"** for the benefit of III B.Tech students. This could be scheduled from **02.01.2020 – 30.03.2020** with 70 hours duration. The interested students can enroll for the course by 31.12. 2019.

All the registered students must attend the classes and solve all the assignments without fail. The following faculty members are assigned to handle the course as instructors.
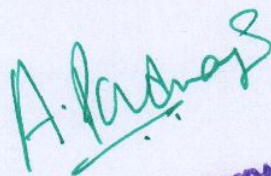
S.No.	Name	Designation
1	Mr. B Eswar Babu	Associate Professor

Students who have completed the course successfully with 65% only get the certificate from Python Institute, Open education and Development group.

HoD

Copy to:

1. The Principal Office
2. Notice Board
3. II & III B.Tech Students

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (VIll), C B. Post,
Hyderabad-75.

Department of Information Technology

Programming Essentials in Python

Course Outcomes:

After completing this course the student must able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

PART 1: BASICS

Basics I

Your First program, The print() function – how the computer talks to you, The print() function – formatting the output

Python literals – integers, floats, strings, Boolean values

Operators - Data manipulation tools, Operators and expressions, Arithmetic operators, Operators and their priorities, Operators and their bindings

Variables – data-shaped boxes, how to name them, Variable names vs. Python keywords, How to assign a variable, How to comment your code, Shortcut operators

How to talk to computer - Output vs. input, How to input data with the input() function, How to convert strings into numbers, Some simple interactive programs, String operators, How to convert numbers into strings

Basics II

Making decisions in Python - How to ask questions and how to get answers, Relational operators

Making use of the answers, Conditions and conditional execution – the if statements, How indentation makes the code, the more conditional execution – if-else statements, the elif clause, some simple examples

Python's loops - Looping your code with while, Looping your code with for, Controlling your loops with break and continue

Logic and bit operations in Python - Computer logic and its operators, Logical values vs. single bits, Bitwise operators, How to deal with single bits

Lists – collections of data - why do we need them so much? How to create a list, How to use a list, Removing elements from a list, How not to use a list, List methods – methods vs. functions, Adding elements to lists, Making use of lists, The second face of the for loop, Lists in action

Sorting simple lists – the bubble sort algorithm

Lists – some more details - How lists are stored, Slices – the powerful tools, The in and not in operators, Lists in advanced applications, Lists in lists, The list comprehension: why and how, Lists in lists – matrices, 3rd dimension

Basics III

Writing functions in Python - Functions: why do we need them? Where do functions come from? Your first function

How functions communicate with their environment - Parametrized functions, How to define and use function parameters, What is shadowing? Positional arguments, Keyword arguments, Mixed arguments, Setting parameters' default values

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Department of Information Technology

Returning a result from a function - A function's effects and results – the return statement, Returning a value, The None value, Returning the non-None value, Argument vs. parameter compatibility, A list as a function's result

Scopes in Python - Functions and scopes, How do scopes work? How to make a variable global, How the parameters interact with their arguments

Creating functions - Some exercises with designing and writing functions, Recursion – how to make a function more powerful?

Tuples and dictionaries - Sequence types and mutability, What is a tuple? How to create a tuple, How to use a tuple, What is a dictionary? How to make a dictionary, How to use a dictionary, How a dictionary and a tuple can work together

PART 2: INTERMEDIATE

Intermediate I

Using modules - What is a module? How to make use of a module? Importing a module

Some useful modules - Working with standard modules, some functions from the math module, Some functions from the random module, Some functions from the platform module

What is a package? - Modules and packages, Your first module, Your first package

Errors – a programmer's daily bread - Errors, failures, and other plagues, Exceptions

The anatomy of an exception

Some of the most useful exceptions

Characters and strings vs. computers

The nature of Python's strings

String methods

Strings in action - Comparing strings, Sorting strings, and not only strings, Strings vs. numbers

Four simple programs - Caesar's cipher – the coder, the decoder, Extracting numbers from a line of text, Checking the IBAN

Intermediate II

Basic concepts of object programming - What is an object? The object – what is it again? What does an object have? Your first class

A short journey from the procedural to the object approach - What is a stack? The stack – a procedural approach, The stack from scratch

Properties - Properties in detail, Instance variables, Class variables, Checking an attribute's existence

Methods - Methods in detail - The inner life of classes and objects, Reflection and introspection – two names of the same phenomenon, Investigating classes – what can we find out about them?

Inheritance – one of object programming foundations - How Python finds properties and methods, How to build a hierarchy of classes, Inheritance vs. composition, Single inheritance vs. multiple inheritance, Diamonds and why you don't want them

Exceptions once again - Exceptions are classes, Detailed anatomy of an exception, How to create our own exception, How to use your own exception

Generators and closures - Generators – where to find them, The yield statement, How to build your own generator, More about list comprehensions, The lambda function, How and when to use lambdas

Processing files - Accessing files from Python code, File names, File streams, File handles, Opening the streams, Selecting text and binary modes, Opening the stream for the first time, Pre-opened streams, Closing streams, Diagnosing stream problems

Working with real files - Dealing with text files, How to work with binary files, How to read bytes from the stream, How to write bytes from the stream, Copying files – a simple, but functional tool

Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in Python"

List of Registered Students(2019-20)

S.No.	ROLL NO.	NAME OF THE STUDENT
1	17911A1202	AMUNDLA SAGAR
2	17911A1208	DESHINENI PRANITHA
3	17911A1220	K KIRAN
4	17911A1226	KATARAM VIVEK KIRAN
5	17911A1233	MAREDDY ANIL KUMAR
6	17911A1238	NIKHIL KUMAR RATHOD
7	17911A1240	PATLOLLA VINEETH REDDY
8	17911A1242	PENDOTA SOWMYA SREE
9	17911A1245	S SRI SAI HARISH
10	17911A1249	SUNIGANTI PRAVALIKA
11	17911A1254	VANGA YAMUNA
12	17911A1259	YANDAPALLI SREE PADMA APARNA
13	16911A1255	SUSHMA GUDA

HoD

PRINCIPAL
Vidya Jyothi Institute of Technology
Hunayatnagar (Vill), C. B. Post,
Hyderabad-75.

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Certification Course - "Programming Essentials in Python"
List of Students successfully completed the course

S.No.	ROLL NO.	NAME OF THE STUDENT
1	17911A1202	AMUNDLA SAGAR
2	17911A1208	DESHINENI PRANITHA
3	17911A1220	K KIRAN
4	17911A1226	KATARAM VIVEK KIRAN
5	17911A1233	MAREDDY ANIL KUMAR
6	17911A1238	NIKHIL KUMAR RATHOD
7	17911A1240	PATLOLLA VINEETH REDDY
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10	17911A1249	SUNIGANTI PRAVALIKA
11	17911A1254	VANGA YAMUNA
12	17911A1259	YANDAPALLI SREE PADMA APARNA
13	16911A1255	SUSHMA GUDA

HoD

PRINCIPAL
Vidya Jyothi Institute of Technology
Hilmayatnagar (Vill), C. B. Post,
Hyderabad-75.

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Sagar Amundla

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

1 Jan 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

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Deshineni Pranitha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location
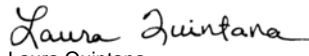
ESWAR BABU BANALA

Instructor

31 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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kiran kalpatapu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

31 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

VIVEK KIRAN KATARAM

Student

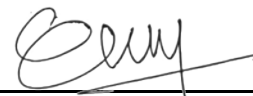**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

2 Jan 2020

Date

Instructor Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
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Anil Reddy Mareddy
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

31 Dec 2019
Date

ESWAR BABU BANALA
Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

Nikhil Kumar Rathod

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

22 Feb 2020

Date

Instructor

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Vineeth Reddy Patolla

Student

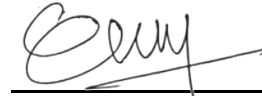**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

Academy Name

India

Location

3 Jan 2020

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Sowmya Sree Pendota

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

2 Jan 2020

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
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- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Sai Harish

Student

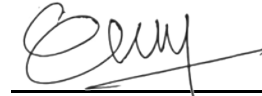**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

31 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools,developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
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Suniganti Pravalika

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

3 Jan 2020

Date

Instructor Signature

Statement of Achievement

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Vanga Yamuna

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

31 Dec 2019

Date

ESWAR BABU BANALA

Instructor

Instructor Signature

Statement of Achievement

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Yandapalli Sreepadma Aparna

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

25 Dec 2019

Date

Instructor Signature

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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- the syntax and semantics of the Python language;
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Sushma Guda
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

27 Dec 2019
Date

Instructor Signature

Vidya Jyothi Institute of Technology

Department of Information Technology

Ref: VJIT/IT/VAC/2018-19 /1

Date: 20th December 2018

CIRCULAR

The Department of Information Technology is offering the value added courses in association with IITBombay Spoken Tutorials scheduled from 1st January – 30th June, 2019.

S.No.	Name of the Course	Faculty Name
1	Drupal	Mr. M Suresh Babu
2	Java	Mr. A Devakishan
3	PHP and MySQL	Mrs. D Anuradha

These courses shall be implemented for the academic year 2018-19. The brochures are disseminated in department notice boards. The students can register to interested courses on or before 30th December 2018.

All the registered students must attend the classes and solve all the assignments without fail. Students who have completed the course successfully with 40% only get the certificate from IIT Bombay Spoken tutorials.

HOD

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Hirapurnagar (Vill), C B. Post.
Hyderabad-75.

Copy to:

1. The Principal Office
2. Notice Board
3. B.Tech – IT class rooms

Spoken Tutorial

http://spoken-tutorial.org

Drupal™

The Spoken Tutorial project

- Created for self learning
- Self-explanatory – uses simple language
- Audio-video – uses multi-sensory approach
- Small duration – has better retention
- Learner centered – learn at your own pace
- Learning by doing – learn and practice simultaneously through examples
- Empowerment – learn a new software

Target Group

- Web Administrators
- IT Faculty
- IT Students
- Web Designers
- Web Developers

Workshops

The Spoken Tutorial Project Team conducts workshops on many FOSS using Spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to contact@spoken-tutorial.org

Spoken Tutorial Project
funded by

National Mission on Education through ICT
Ministry of Human Resource Development
Government of India.

Contact us

Email : contact@spoken-tutorial.org
info@spoken-tutorial.org

Website: http://spoken-tutorial.org

IIT Bombay
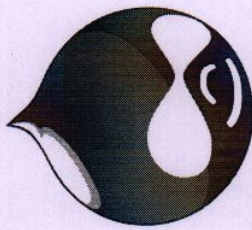
NMEICT, Ministry of Human Resource Development
NVLI, Ministry of Culture
Government of India

1 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and practise by reproducing all the steps shown in the video side-by-side.

4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

2 Drupal

1. Locate and open the folder called spoken in your computer (or ask your coordinator/instructor).

2. Right-click and open the file index.html using Firefox/Chrome browser. Do not open with Internet Explorer. IE may not render Spoken Tutorials properly.

3. If any of the following steps does not work, please check the browser you are using. If you are using IE, please close it and reopen with Firefox/Chrome.

4. The **Side-by-Side Method** video appears by default. This explains an easy self-learning methodology. Listen to this tutorial first. You shall follow this method to learn Drupal using Spoken Tutorials.

5. At the top of the screen, click on **Select Foss Category** drop-down and choose **Drupal**.

6. Click on **Select Language** drop-down and choose the language in which you wish to learn, from the available languages.

7. Click on the **Submit** button.

8. You will see a list of tutorials based on your selection.

9. Start with the first tutorial in the displayed list.

3 First tutorial: Overview of Drupal

1. Locate the tutorial **Overview of Drupal**.

2. This tutorial explains **Drupal** and the overview of this tutorial series.

3. If you wish to view subtitle text for the spoken content, follow the instructions given in README.txt in the spoken folder.

4. Click on the player and view the tutorial.

5. Once this tutorial is complete, click on the next tutorial **Installation of Drupal** in the playlist window.

4 Second tutorial: Installation of Drupal

1. Locate the tutorial **Installation of Drupal**.

2. This tutorial explains how to install **Drupal 8** on **Windows OS** and **Ubuntu Linux OS** using **Bitnami Drupal Stack**.

3. Your system administrator would have already installed **Bitnami Drupal** in your computer.

4. To practise using the **side-by-side method**, adjust the size of the web browser containing the tutorial to the left half of your screen. On the right half open and fit the **file browser/explorer**.

5. If you are a Linux user, skip to time 6:51 in the video and follow the instructions from there. At 7:09 the tutorial asks you to open the folder drupal-8.1.3-0. If your system contains a newer version of Drupal, the folder name

will have a higher number. Open this folder instead.

6. Windows users may jump to time 7:27 in the video and learn how to open the **Bitnami Drupal Manager Tool**.

7. Follow the instructions to **Start the Servers**.

8. When you click on **Go to Application** at 8:33, a new window with the title **Bitnami Drupal Stack** will open. If instead it opens in a new tab, click and drag it outside to create a new window.

9. Resize the above mentioned **Bitnami Drupal Stack** window, and fit it on the right half of the computer screen, to follow the side-by-side method.

10. Click on **Access Drupal** to open the main page of your Drupal website.

11. Continue to practise the tutorial till time 9:00. Here, provide the **Username** as admin, and the **Password** as drupal8gr8 (please consult your coordinator/instructor if it is different).

12. Continue and complete the tutorial.

5 Third tutorial: Content Management in Admin Interface

1. If the web servers are not running or if you have not already logged in, use the instructions in steps 5 to 11 in Section 4 to

   (a) start the servers and access the Drupal main page, and

   (b) login as admin.

You will have check for the above whenever you wish to work with your drupal site afresh. Computer shutdown, browser clear cache, etc., will also stop the servers and log you out. Otherwise, you can simply continue from the previous tutorial.

2. Scroll down below the current tutorial and locate the **Code files** section. Click and download the file (ZIP archive). It contains the file logo.png, which is needed for this tutorial. You may copy it into a folder of yours and use it, as suggested by the tutorial.

3. After completing this tutorial, complete the problems in the **Assignment** section provided, to reinforce your learning.

6 Changes in Drupal 8.4.4

6.1 Fourth tutorial: Configuration Management in Admin Interface

1. At 2.39 min in the video, to change the site name click on **Site information** or **Basic Site Settings**. The option name will differ based on your Drupal version.

6.2 Tenth tutorial: Managing Content

1. At 1.07 min in the video, you can see the **Create New revision** checkbox. But in the new versions of Drupal, to see the option, first publish the event, then edit.

6.3 Eighteenth tutorial: Modifying the Page Layout

1. At 7.57 min in the video, click on the dropdown and choose **None** or click on **Configure** dropdown and choose **Disable**.

6.4 Twentieth tutorial: Styling a Page using Themes

1. At 5.45 min in the video, you can see the **TOGGLE DISPLAY** or **PAGE ELEMENT DISPLAY**. The label name will differ based on your Drupal version.

7 Subsequent tutorials

Complete all Drupal tutorials following the method mentioned in the Section 5. In particular, do the fol-

lowing for every tutorial:

1. start the server, if the server is not running
2. log in as admin, if not logged in
3. download, copy and use code files
4. do the assignments

8 Improving your English

1. It is possible that you are not well versed with the English language. If so, you may choose one of the many other languages in which we have dubbed these tutorials.

2. In case you have learnt using a language other than English, please repeat all the tutorials in English. This will also improve your English language skills.

3. Please let us know in case you would like to dub these tutorials in any other language not currently available.

3

Vidya Jyothi Institute of Technology

Department of Information Technology

Drupal

Course Outcomes

At the end of the course the student should be able to:

1. To understand the concept of Version Control System and should be familiar with GIT and understand basic web application concepts.
2. To learn and understand the architecture of Drupal and able to build Drupal based web applications using contributed modules.
3. To learn how to build a theme in Drupal and understand how to debug Drupal application.
4. Able to handle simple to complex websites, ranging from normal websites, to huge web applications using Drupal.

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

IIT BOMBAY SPOKEN TUTORIAL CERTIFICTIONS 2018-19

COURSE: DRUPAL

S.No.	ROLL NO.	NAME OF THE STUDENT
1	15911A1208	BOTSA JAYALAXMI
2	15911A1221	JAINA SAICHANDRA
3	15911A1227	K K ARVIND
4	15911A1230	KANDHADA CHANDANA REDDY
5	15911A1233	KOTHA PRABHUSAI
6	15911A1234	KUKKALA MADHURI
7	15911A1235	LOKANANDI RAM KUMAR
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13	15911A1256	UDAYA SRI AEDAKULA
14	15911A1258	VIDHI ALPESH KUMAR SHAH
15	15911A1236	MAHESHWARAM SAITEJA

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Himayathnagar (Vill), C.B. Post,
Hyderabad-75.

The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new FLOSS (Free/Libre and Open Source Software)

Target Group

- Students- High School and College
- Working professional- Software users, developers and trainers
- Research scholars
- Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on Java and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.
For more details, please visit
https://spoken-tutorial.org

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.
For more details, please visit
https://forums.spoken-tutorial.org.

Spoken Tutorial
https://spoken-tutorial.org

Scan the QR code to
visit Spoken Tutorial website

The Spoken Tutorial Project
is funded by the
National Mission on Education through
Information and Communication Technology,
Ministry of Human Resource Development,
Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: https://spoken-tutorial.org

Content available
in
22 Indian languages

Forum help
available
to all learners

Java

IIT Bombay

National Mission on Education through
Information and Communication
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www.sakshat.ac.in

Introduction

- Java is the most popular class-based, object-oriented, high-level programming language.

- Developed by James Gosling at Sun Microsystems and released in 1995 as a core component of Sun Microsystems' Java platform.

- Derives much of its syntax from C and C++.

- Is typically compiled to bytecode (class file). It can be run on any Java Virtual Machine (JVM) regardless of the architecture.

- Is specifically designed to have few implementation dependencies.

- Is Intended to let application developers write a code that runs on one platform & does not need to be recompiled to run on another.

Java has characteristics of Object-Oriented languages

- **Inheritance:** Creating new classes & extending them to reuse the existing code and adding new features as needed.

- **Encapsulation:** combining the information and providing the abstraction.

- **Polymorphism:** Providing different functionality by the functions having the same name, based on the signatures of the methods.

- **Dynamic binding:** Providing maximum functionality to a program about the specific type at runtime.

Features

Platform independence:
Key feature of Java language is write-once-run-anywhere (WORA) concept. With Java, you can run the code written on any system.

Simplicity:
Programs are easy to write and debug. Java provides a bug-free system due to strong memory management.

Portability: Java feature write-once-run-anywhere makes it portable, provided that the system has an interpreter for JVM. Also, Java has standard data size irrespective of the OS or the processor.

Performance: Uses native code and lightweight process called threads.
The advance version of JVM uses adaptive and just-in-time compilation technique to improve the total performance.

Distributed: Widely used protocols like HTTP and FTP are developed in Java. Internet programmers can call functions on these protocols and can access the files from any remote machine on the internet, rather than writing codes on their local system.

Secure:
- Programs in Java run under an area known as the sandbox.

- Security manager determines the accessibility options of a class like reading and writing a file to the local disk.

- Uses public key encryption system to allow the java applications to transmit over the internet, in a secure and encrypted form.

- The bytecode verifier checks the classes after loading.

Robust:
Java has
- Strong memory allocation.

- Automatic garbage collection mechanism.

- Powerful exception handling.

- Type-checking mechanism.

- A compiler that checks the program for any errors and interpreter checks any runtime errors and makes the system secure from crashes.

Vidya Jyothi Institute of Technology

Department of Information Technology

JAVA

Course Outcomes:

At the end of the course the student should be able to:

1. Understand OOP concepts to apply basic Java constructs

2. Analyze different forms of inheritance and handle different kinds of file I/O

3. Evaluate the usage of Exception Handling and Multithreading in complex Java programs

4. Contrast different GUI layouts and design GUI applications

5. Construct a full-fledged Java GUI application, and Applet with database connectivity

1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
http://spoken-tutorial.org/tutorial-search/

2. You can also download the Spoken Tutorials for offline learning from :
http://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the commands shown in the video.

4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 Java

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Java".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. Start with the first tutorial in the displayed list.

4 First tutorial: Getting started with Java Installation

1. Locate the topic "Getting started with Java Installation" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6. At 2:56 mins, pause the video.

4.1 Open Terminal on Linux OS

(a) The video says that you need to use the "Terminal" and "gedit text editor" in Linux OS.

(b) The tutorials are explained on the Linux OS.

(c) It will be easy for Linux users to follow as instructed in the tutorial.

4.2 Open Command Prompt on Windows OS

(a) On Windows, one has to use "Command prompt" and "Notepad++ text editor" instead of "Terminal" and "gedit text editor".

(b) To open the "Command Prompt" on Windows, press the "Windows" key and "R" key simultaneously on your keyboard. It will open the "Run" prompt.

(c) At the prompt, type "cmd" and click on "Ok".

(d) This will open the "Command" prompt.

(e) Notepad++ can be opened from Start >> Applications >> Notepad++.

7. Play-pause-practise the whole tutorial.

8. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player

9. Follow all the above instructions, till you complete the first 2 tutorials.

10. Third tutorial, Installing Eclipse will teach how to install Eclipse on Linux.

11. For Eclipse - Windows Installation procedure, refer the Java - Installation Sheet.

5 Fourth tutorial : Getting started Eclipse

1. From here onwards, the remaining tutorials are explained using the Eclipse IDE.

2. The commands shown, will work on both Linux OS and Windows OS.

3. Follow all the instructions given in the individual tutorials and reproduce all the commands as shown.

5.1 Instructions to practise

(a) Create a folder on the "Desktop" with your "Name-RollNo-Component". (Eg. "prathamesh-04-java").

(b) Give a unique name to the files you save, so as to recognize it next time. (Eg. "Practice-1-java").

(c) Remember to save all your work in your folder.

(d) This will ensure that your files don't get over-written by someone else.

(e) Save your work from time to time, instead of saving it at the end of the task.

5.2 Common instructions for Assignments

(a) Attempt the Assignments as instructed in the tutorial.

(b) Save your work in your folder.

5.3 Common instructions to use Code files

(a) Click on the link "Code files" located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

4. Play-pause-practise the whole tutorial.

5. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

6. Follow all the above instructions, till you complete all the tutorials in the series.

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Department of Information Technology

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COURSE: JAVA

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Spoken Tutorial

php
MySQL®

http://spoken-tutorial.org

The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

Contact us

Email: contact@spoken-tutorial.org
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IIT Bombay

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Target Group

*Students – High School and College

*Working professional – Software users, developers and trainers

*Research scholars

*Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on PHP & MySQL and other FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details,please write to
contact@spoken-tutorial.org

PHP

Introduction

PHP or "PHP : Hypertext Preprocessor" is a widely-used Open Source general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. Its syntax draws upon C, Java and PERL, and is easy to learn.

The main goal of the language is to allow web developers to write dynamically generated web pages quickly, but you can do much more with PHP.

Uses of PHP

- To create large websites
- For E-commerce like osCommerce, OpenCart
- To create online discussion forums like phpBB
- To create content management systems like Drupal, Joomla
- To create e-learning management systems like Moodle
- To develop web-based management tools like phpMyAdmin

And many more...

MySQL

Introduction

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. The SQL phrase stands for Structured Query Language. Applications which use MySQL data bases include: Joomla, Word Press, MyBB, phpBB, Drupal and other software built on the LAMP software stack.

A third party open source software "phpMyAdmin" is used as a web-based front end for managing MySQL databases easily and effeciently. It is widely installed by Web hosts worldwide. Also it is included in the convenient LAMP, MAMP and WAMP software bundle installers.

MySQL is used in many high-profile, largescale World Wide Web products, including Wiki-pedia, Google and facebook.

Features of PHP & MySQL
- Scalability and flexibility
- High speed and high performance
- Data protection
- Comprehensive Application Development
- Management tools

And many more...

PHP & MySQL

Benefits

- A large chunk of facebook, the world's leading social networking site, has a huge code based in PHP and it uses MySQL as database to store information of 1 billion+ users!

- PHP is the most preferred language for web development by free-lance developers across the globe.

- Many free and open source CMS like Drupal, Moodie, etc. are created using PHP & MySQL.

- PHP & MySQL has a large user and develope community.

Links:

Original videos are available at
http://phpacademy.org

PHP Official Website -http://www.php.net

MYSQL Official Website -
http://www.mysgl.com

W3Schools - PHP and MySQL Tutorials -
http://www.w3schools.com/php/default.asp
http://www.w3schools.com/sql/default.asp =

These tutorials will help you get started with PHP programming. In this series we will go through the basics of installing and getting PHP ready for development, the basic syntax and features of the language.

PHP and MySQL

Course Outcomes:

At the end of the course the student should be able to:

1. Develop web applications using server side scripting language-PHP

2. Develop the database and provide restricted access to different users of database and formulate the Complex SQL queries in web applications.

3. Analyze various Relational Formal Query Languages and various Normal forms to carry out Schema refinement in web applications.

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Instruction Sheet for PHP & MySQL
Spoken Tutorial Team
IIT Bombay

1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
http://spoken-tutorial.org/tutorial-search/

2. You can also download the Spoken Tutorials for offline learning from :
http://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the steps shown in the video.

4. If you find it difficult to do the above, you may consider listening to the *whole* tutorial once and then practise during the second hearing.

3 PHP and MySQL

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "PHP and MySQL".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. In this series, first 2 tutorials will teach you about "How to install PHP & MySQL on Windows & Linux".

6. If you have already installed PHP & MySQL, skip these tutorials.

7. Start with the third tutorial "Echo Function" in the displayed list.

4 First tutorial: XAMPP in Windows

1. If you are a Windows User, locate the topic "XAMPP in Windows"

2. To view the tutorial, click on the Play icon which is located in the player.

3. This tutorial will teach how to install XAMPP on Windows OS.

4. Please note: There could be minor changes in the look and feel of newer versions of XAMPP. However, all the commands shown in the video will work in newer versions as well.

5 Second tutorial: XAMPP in Linux

1. If you are a Linux User, locate the topic "XAMPP in Linux"

2. To view the tutorial, click on the Play icon which is located in the player.

3. This tutorial will teach how to install XAMPP on Linux OS.

4. Please note: There could be minor changes in the look and feel of newer versions of XAMPP. However, all the commands shown in the video will work in newer versions as well.

6 Third tutorial: Echo Function

1. Locate the topic "Echo Function" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6.1 Instructions to practise on Windows OS

(a) The tutorials are explained on Windows OS.

(b) It will be easy for the Windows users to follow, as instructed in the tutorial.

(c) Before you begin to practise, kindly create a folder "phpacademy" inside the folder c:\xampp\htdocs

(d) Create the file helloworld.php in the folder c:\xampp\htdocs\phpacademy as it is required for this tutorial.

   i. To do this, open the ConTEXT editor.

   ii. Click on File >> New >> Save As.

   iii. Name the file as helloworld.php.

   iv. Remember to choose the location as c:\xampp\htdocs\phpacademy

   v. Now click on Save button.

(e) Please note that the path of phpacademy folder shown in the video is c:\xampp\htdocs\phpacademy

(f) This will be your working directory for all the tutorials.

(g) Henceforth, for all the videos, the .php and/or .html files should be created/copied in this directory.

(h) You are free to create subdirectories here for each tutorial, so that you can manage all your files in a better way.

6.2 Instructions to practise on Linux OS

(a) The tutorials are explained on Windows OS.

(b) To practise on Linux, follow these steps.

(c) Before begin your practice, kindly create a folder "phpacademy" inside the folder /opt/lampp/htdocs/

(d) Based on your installation, the web root path may vary as /opt/lampp/htdocs/ or /var/www/.

(e) Create the file helloworld.php in the folder /opt/lampp/htdocs/phpacademy as it is required for this tutorial.

(f) To do this, open the Terminal by pressing Ctrl-Alt-t keys simultaneously.

(g) Now type
cd /opt/lampp/htdocs/phpacademy in the Terminal and hit ENTER.

(h) Now type
gedit helloworld.php & and hit ENTER.

(i) Please note that the path of phpacademy folder shown in the video is c:\xampp\htdocs\phpacademy

(j) This is your working directory in Windows.

(k) But for Linux OS, the equivalent path is: /opt/lampp/htdocs/ or /var/www/

(l) This will be your working directory for all the tutorials.

(m) Henceforth, for all the videos, the .php and/or .html files should be created/copied in this directory.

(n) You are free to create subdirectories here for each tutorial, so that you can manage all your files in a better way.

6. Now resume the video and follow all the instructions.

7. Type all the code shown in the video in helloworld.php file and save it periodically, by clicking File >> Save.

8. At time 1:07 min, the video shows Firefox web browser to view helloworld.php file.

9. You can view this file in a separate tab or in a new web browser window.

10. Type http://localhost/phpacademy/ in the address bar of your Firefox browser.

11. Click helloworld.php.

12. This will open helloworld.php in the browser.

13. Every time you make some change to helloworld.php using gedit(Linux) or ConTEXT(Windows) editor, you should save your changes and refresh your web browser by pressing the F5 key, to reflect the changes.

14. In some of the future tutorials, Google Chrome is used as the web browser. But you can continue using Firefox or any other web browser.

15. From time 1:55 min, the video talks about parse error.

16. Please understand it carefully and try to reproduce the exact code as shown in the video.

17. Remember to save all your work in your folder.

18. This will ensure that your files don't get overwritten by someone else.

6.3 Common instructions for Assignments

(a) Attempt the `Assignments` as instructed in the tutorial.

(b) Save your work in your folder.

6.4 Common instructions to use Code files

(a) Click on the link `"Code files"` located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

19. Play-pause-practise the whole tutorial.

20. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

21. Follow all the above instructions, till you complete all the tutorials in the `Basic Level`.

7 Twenty-fifth tutorial: MySQL Part 1

1. At 07:05 Primary key option is different in the latest version.
Click the drop down-box below the `Index` label and select "`Primary`". A new window opens to `Add index`.
Click on the `Go` button to set the primary key.

2. At 07:08 - Auto-increment can be set by clicking the check box `A_I`

3. Follow all the above instructions, till you complete all the tutorials in the series.

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

IIT BOMBAY SPOKEN TUTORIAL CERTIFICTIONS 2018-19

COURSE: PHP & MySQL

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1	16911A1202	AKKALDEVI RASHMITHA
2	16911A1207	BODAPATI YUGANDHARI
3	16911A1209	D ANEELA CHOWDARY
4	16911A1215	GANDHAM SANDYA
5	16911A1224	KOKKILIGADDA HIMAJA
6	16911A1232	MANDHUMULA AMITH REDDY
7	16911A1233	MANGALKUNTLA SUREKHA REDDY
8	16911A1235	MOHAMMAD ROSHAN
9	16911A1237	MOHIT CHOKDA
10	16911A1241	NALIMELA MADHUSHA
11	16911A1242	NAMALA REBECCA AISHWARYA
12	16911A1244	PAREPALLY SUGANDHINI
13	16911A1245	PARSHAPU PRAVALIKA
14	16911A1246	PASULA HEMANTH
15	16911A1247	PILLALAMARI ANIRUDH
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This is to certify that **VIDHI SHAH** participated in the **Java** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Java** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **SAITEJA MAHESHWARAM** participated in the **Java** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Java** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **AKKALDEVI RASHMITHA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

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Certificate of Participation

Spoken Tutorial
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IIT Bombay

This is to certify that **BODAPATI YUGANDHARI** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **D ANEELA CHOWDARY** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **GANDHAM SANDHYA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

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IIT Bombay

Certificate of Participation

This is to certify that **K HIMAJA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

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IIT Bombay

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Certificate of Participation

This is to certify that **MANDHUMULA AMITH REDDY** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

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IIT Bombay

Certificate of Participation

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This is to certify that **M SUREKHA REDDY** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **MOHAMMAD ROSHAN** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

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Project at
IIT Bombay

This is to certify that **MOHIT CHOKDA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **NALIMELA MADHUSHA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **NAMALA REBECCA AISHWARYA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

Spoken Tutorial Project at IIT Bombay

This is to certify that **PAREPALLY SUGANDHINI** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
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IIT Bombay

Certificate of Participation

This is to certify that **PARSHAPU PRAVALIKA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

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This is to certify that **PASULA HEMANTH** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

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Certificate of Participation

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This is to certify that **P ANIRUDH** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

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IIT Bombay

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IIT Bombay

Certificate of Participation

This is to certify that **POLASANI MOUNIKA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2019** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 29th 2019

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Department of Information Technology

Ref: VJIT/IT/VAC/2018-19 /2
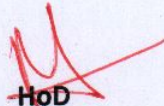
Date: 24.12.2018

CIRCULAR

The Department of Information Technology will be organizing a value added course on **"Java J2EE Training"** for the benefit of III B.Tech students. This will be scheduled from **07.01.2019 – 06.04.2019**. The interested students should register for the course by 05.01. 2019.
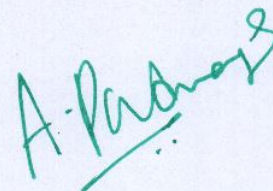
All the registered students must attend the classes and solve all the assignments without fail.

Mr. Devakishan Adla, Associate Professor is assigned as an instructor for the course.

HoD

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3. III B.Tech Students

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Department of Information Technology

Java J2EE Training

Course Outcomes:
After completing this course the student must able to

1. Create Web Applications using **Java** Servlet and Manage Web Session using Servlet and JSP.
2. Use JavaBeans in JSP, Develop Custom Tags in JSP.
3. Handle Errors and Exceptions in Web Applications.
4. Use NetBeans IDE for creating J2EE Applications

Module 1: Core Java – Data types, Variables, Control Statements, OOP – Classes, Objects, Encapsulation, Inheritance, Polymorphism, Exception Handling, Database Connectivity

Module 2: Introduction to Web – HTML, CSS, JavaScript

Module 3: Introduction to J2EE - What is J2EE? , What does j2ee comprise?

Module 4: Servlets - Servlet terminology, Servlet API, Generic Servlet, Http Servlet, Servlet Life Cycle, Session Tracking in Servlets, Servlet Collaboration, JDBC in servlet, Servlet Pagination

Module 5: JSP - JSP introduction, JSP with Life cycle, JSP API, Scripting elements, scriptlet tag, expression tag, declaration tag, Implicit Objects, Directive elements, page directive, include directive, taglib directive, Exception Handling, Action Elements, Expression Language, MVC in JSP, JSTL, Custom tags, JSP pagination, JDBC in JSP, Development in JSP

Module 6: EJB (Enterprise JavaBeans) - What is EJB, What is enterprise java beans (EJB) and what are the advantages of EJB?, Session Bean, The session bean represents the business logic, stateless, stateful or singleton, Stateless Session Bean, What is stateless session bean, its lifecycle and example, Stateful Session Bean, What is stateful session bean, its lifecycle and example.

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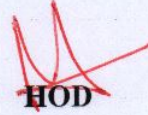
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Department of Information Technology

Date: 05.01.2019

List of Registered Students – Java J2EE Training

S.No.	H T No.	Name
1	16911A1201	ADHURTHI PRIYANKA
2	16911A1202	AKKALDEVI RASHMITHA
3	16911A1203	AKKU RAJESHWAR
4	16911A1204	ANUMULA VIJAY KUMAR
5	16911A1205	BADAVATH DIVYA
6	16911A1206	BEGARI AKHILESH
7	16911A1207	BODAPATI YUGANDHARI
8	16911A1208	BODDUPELLI RAJKUMAR
9	16911A1209	D ANEELA CHOWDARY
10	16911A1210	D VEDANTH
11	16911A1211	DIRISHALA PAVANI
12	16911A1212	ETTA SHIVA KUMAR
13	16911A1213	GADDAM SIDDHARTH
14	16911A1214	GADDI PAVAN KALYAN
15	16911A1215	GANDHAM SANDYA
16	16911A1216	GANGIDI PRADEEP REDDY
17	16911A1217	GOLLAKARAM YASHWANTH VENKAT SAMRAT
18	16911A1218	GOPI SRIKANTH
19	16911A1219	GUNTUKA ANUHYA
20	16911A1220	JADHAV YOGESH
21	16911A1221	K KEERTHAN
22	16911A1222	K RUTHVIKA REDDY
23	16911A1223	KARAMTHOT SAI KIRAN RATHOD
24	16911A1224	KOKKILIGADDA HIMAJA
25	16911A1225	KOLLALSI GOVARDHANI
26	16911A1226	KOMMADDU GOPI KRISHNA
27	16911A1228	KONDAPALLY POORVITHA
28	16911A1230	M YUGANDHAR RAJ
29	16911A1231	MANDARAM SNEHA
30	16911A1232	MANDHUMULA AMITH REDDY
31	16911A1233	MANGALKUNTLA SUREKHA REDDY
32	16911A1234	METTU SREEVARSHA
33	16911A1235	MOHAMMAD ROSHAN
34	16911A1236	MOHAMMED ADIL
35	16911A1237	MOHIT CHOKDA
36	16911A1238	MUCHARLA KARTHIK REDDY
37	16911A1239	N RANJITHA
38	16911A1240	NAGULWAR AMAN VISTARI
39	16911A1241	NALIMELA MADHUSHA
40	16911A1242	NAMALA REBECCA AISHWARYA

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41	16911A1243	PALLAPU KARTHIK
42	16911A1244	PAREPALLY SUGANDHINI
43	16911A1245	PARSHAPU PRAVALIKA
44	16911A1246	PASULA HEMANTH
45	16911A1247	PILLALAMARI ANIRUDH
46	16911A1248	POCHABOINA SHIVA TEJA
47	16911A1249	POLASA SAI JYOTHI
48	16911A1250	POLASANI MOUNIKA
49	16911A1251	PUTTA SIDDHARTH GOUD
50	16911A1252	S SAI SIDHARTHA
51	16911A1253	SAADHIKA YALAVARTHI
52	16911A1256	THAKUR MANISHA
53	16911A1257	VDDAGIRI SHIVAKRISHNA
54	16911A1258	YADAGIRI PRIYANKA
55	16911A1259	YENNARAM VAISHNAVI
56	16911A1260	ZEBA HUSNA
57	15911A1231	KASARAPU SUMAN PRAKASH
58	15911A1225	JYOTHI UMESH

HOD

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Department of Information Technology

Ref: VJIT/IT/VAC/2018-19 /3

Date: 2nd January 2019

CIRCULAR

The Department of Information Technology in association with CISCO Networking Academy is planning to conduct certification course on "Programming Essentials in Python" for the benefit of II B.Tech, II Sem students. This will be scheduled from 10th January 2019 – 30th March 2019 with 70 hours duration. The interested students can enroll for the course by 5th January 2019.

All the registered students must attend the classes and solve all the assignments without fail. Students who have completed the course successfully with 65% only get the certificate from Python Institute, Open education and Development group.

HoD

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3. II B.Tech - IT

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Department of Information Technology

Programming Essentials in Python

Course Outcomes:
After completing this course the student must able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

PART 1: BASICS

Basics I

Your First program, The print() function – how the computer talks to you, The print() function – formatting the output

Python literals – integers, floats, strings, Boolean values

Operators - Data manipulation tools, Operators and expressions, Arithmetic operators, Operators and their priorities, Operators and their bindings

Variables – data-shaped boxes, how to name them, Variable names vs. Python keywords, How to assign a variable, How to comment your code, Shortcut operators

How to talk to computer - Output vs. input, How to input data with the input() function, How to convert strings into numbers, Some simple interactive programs, String operators, How to convert numbers into strings

Basics II

Making decisions in Python - How to ask questions and how to get answers, Relational operators

Making use of the answers, Conditions and conditional execution – the if statements, How indentation makes the code, the more conditional execution – if-else statements, the elif clause, some simple examples

Python's loops - Looping your code with while, Looping your code with for, Controlling your loops with break and continue

Logic and bit operations in Python - Computer logic and its operators, Logical values vs. single bits, Bitwise operators, How to deal with single bits

Lists – collections of data - why do we need them so much? How to create a list, How to use a list, Removing elements from a list, How not to use a list, List methods – methods vs. functions, Adding elements to lists, Making use of lists, The second face of the for loop, Lists in action

Sorting simple lists – the bubble sort algorithm

Lists – some more details - How lists are stored, Slices – the powerful tools, The in and not in operators, Lists in advanced applications, Lists in lists, The list comprehension: why and how, Lists in lists – matrices, 3rd dimension

Basics III

Writing functions in Python - Functions: why do we need them? Where do functions come from? Your first function

How functions communicate with their environment - Parametrized functions, How to define and use function parameters, What is shadowing? Positional arguments, Keyword arguments, Mixed arguments, Setting parameters' default values

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Returning a result from a function - A function's effects and results – the return statement, Returning a value, The None value, Returning the non-None value, Argument vs. parameter compatibility, A list as a function's result

Scopes in Python - Functions and scopes, How do scopes work? How to make a variable global, How the parameters interact with their arguments

Creating functions - Some exercises with designing and writing functions, Recursion – how to make a function more powerful?

Tuples and dictionaries - Sequence types and mutability, What is a tuple? How to create a tuple, How to use a tuple, What is a dictionary? How to make a dictionary, How to use a dictionary, How a dictionary and a tuple can work together

PART 2: INTERMEDIATE

Intermediate I

Using modules - What is a module? How to make use of a module? Importing a module

Some useful modules - Working with standard modules, some functions from the math module, Some functions from the random module, Some functions from the platform module

What is a package? - Modules and packages, Your first module, Your first package

Errors – a programmer's daily bread - Errors, failures, and other plagues, Exceptions

The anatomy of an exception

Some of the most useful exceptions

Characters and strings vs. computers

The nature of Python's strings

String methods

Strings in action - Comparing strings, Sorting strings, and not only strings, Strings vs. numbers

Four simple programs - Caesar's cipher – the coder, the decoder, Extracting numbers from a line of text, Checking the IBAN

Intermediate II

Basic concepts of object programming - What is an object? The object – what is it again? What does an object have? Your first class

A short journey from the procedural to the object approach - What is a stack? The stack – a procedural approach, The stack from scratch

Properties - Properties in detail, Instance variables, Class variables, Checking an attribute's existence

Methods - Methods in detail - The inner life of classes and objects, Reflection and introspection – two names of the same phenomenon, Investigating classes – what can we find out about them?

Inheritance – one of object programming foundations - How Python finds properties and methods, How to build a hierarchy of classes, Inheritance vs. composition, Single inheritance vs. multiple inheritance, Diamonds and why you don't want them

Exceptions once again - Exceptions are classes, Detailed anatomy of an exception, How to create our own exception, How to use your own exception

Generators and closures - Generators – where to find them, The yield statement, How to build your own generator, More about list comprehensions, The lambda function, How and when to use lambdas

Processing files - Accessing files from Python code, File names, File streams, File handles, Opening the streams, Selecting text and binary modes, Opening the stream for the first time, Pre-opened streams, Closing streams, Diagnosing stream problems

Working with real files - Dealing with text files, How to work with binary files, How to read bytes from the stream, How to write bytes from the stream, Copying files – a simple, but functional tool

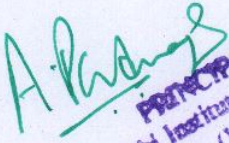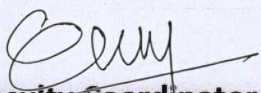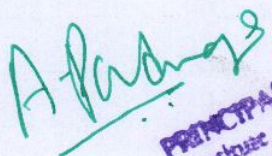# Vidya Jyothi Institute of Technology

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Department of Information Technology

Certification Course - "Programming Essentials in Python"

List of Registered Students(2018-19)

S.No.	ROLL NO.	NAME OF THE STUDENT
1	17911A1201	ADDI SANJANA
2	17911A1202	AMUNDLA SAGAR
3	17911A1203	ANUMU VENKATARAMANA
4	17911A1205	BEERAM PRIYA
5	17911A1206	BEERUKA TARINI
6	17911A1208	DESHINENI PRANITHA
7	17911A1209	EKKALADEVI SRINIVAS SANJANA
8	17911A1211	GADDAM JAGADEESH
9	17911A1212	GANJI NAGA SAI MAHITH
10	17911A1213	GIDDALAPATI VAISHNAVI
11	17911A1214	GINNE ABHINAYA SRI
12	17911A1215	GINUKALA PHANINDAR
13	17911A1216	GODUGU MANISH KUMAR YADAV
14	17911A1218	J S V S JOGENDRA KAPGATE
15	17911A1219	JATOTH PAVAN KUMAR
16	17911A1220	K KIRAN
17	17911A1221	K SHASHANK
18	17911A1222	KALLURI VEERA VENKATA SAI VARA PRASAD
19	17911A1223	KALYAN GOURU
20	17911A1224	KARNE VISHAL KUMAR
21	17911A1225	KATAM SOMESH SAI
22	17911A1226	KATARAM VIVEK KIRAN
23	17911A1227	KEETHA HEMANTH
24	17911A1228	KONDURI SAIVARDHAN
25	17911A1229	KONDURU SHIVANI
26	17911A1230	KOTHA CHIKITHA REDDY
27	17911A1231	M P SOUNDARYA
28	17911A1232	MACHUGARI AKILA
29	17911A1233	MAREDDY ANIL KUMAR
30	17911A1234	MOHAMMED ALI

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31	17911A1235	MOHAMMED FURQAN
32	17911A1236	MUNJAGALLA AKASH
33	17911A1237	MYADAM AARTHI
34	17911A1238	NIKHIL KUMAR R
35	17911A1239	PAMULAPATI SAI CHAITANYA
36	17911A1240	PATLOLLA VINEETH REDDY
37	17911A1241	PATLURI PALLAVI
38	17911A1242	PENDOTA SOWMYA SREE
39	17911A1243	POGULA SAI PUNEETH
40	17911A1244	PRITHVI REDDY MANDALAPU
41	17911A1245	S SRI SAI HARISH
42	17911A1246	SANIKOMMU BHARADWAJ REDDY
43	17911A1247	SANNALA SUMANTH REDDY
44	17911A1248	SREESHMA REDDY P
45	17911A1249	SUNIGANTI PRAVALIKA
46	17911A1250	T PAVAN YADAV
47	17911A1251	TANKASALA ABHISHEK
48	17911A1252	TONDAKURI SAI RAM
49	17911A1253	TURPU POOJA
50	17911A1254	VANGA YAMUNA
51	17911A1255	VEMULAPALLI BHARATH SAI
52	17911A1256	VILASAGARAM SAIRAM
53	17911A1257	VORSU SWATHI
54	17911A1258	VUKKALKER NANDINI
55	17911A1259	Y. SREE PADMA APARNA
56	16911A1255	SUSHMA GUDA

Faculty Coordinator

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Certification Course - "Programming Essentials in Python"
List of Students successfully completed the course(2018-19)

S.No.	ROLL NO.	NAME OF THE STUDENT
1	17911A1201	ADDI SANJANA
2	17911A1203	ANUMU VENKATARAMANA
3	17911A1205	BEERAM PRIYA
4	17911A1209	EKKALADEVI SRINIVAS SANJANA
5	17911A1212	GANJI NAGA SAI MAHITH
6	17911A1213	GIDDALAPATI VAISHNAVI
7	17911A1214	GINNE ABHINAYA SRI
8	17911A1221	K SHASHANK
9	17911A1223	KALYAN GOURU
10	17911A1225	KATAM SOMESH SAI
11	17911A1227	KEETHA HEMANTH
12	17911A1228	KONDURI SAIVARDHAN
13	17911A1231	M P SOUNDARYA
14	17911A1232	MACHUGARI AKILA
15	17911A1234	MOHAMMED ALI
16	17911A1235	MOHAMMED FURQAN
17	17911A1237	MYADAM AARTHI
18	17911A1241	PATLURI PALLAVI
19	17911A1248	SREESHMA REDDY P
20	17911A1255	VEMULAPALLI BHARATH SAI
21	17911A1256	VILASAGARAM SAIRAM
22	17911A1257	VORSU SWATHI

Faculty Coordinator

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C.B. Post
Hyderabad-75.

HOD

Statement of Achievement

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- developer tools and the runtime environment;

- the syntax and semantics of the Python language;

- the fundamentals of object-oriented programming and the way they are adopted in Python;

- the means by which to resolve typical implementation problems;

- the writing of Python programs using standard language infrastructure;

- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

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By completing the course, the student is now ready to attempt the qualification *PCAP – Certified Associate in Python Programming* certification, from the OpenEDG Python Institute.

Addi Sanjana

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 16, 2019

Date

Instructor's Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

PCAP: Programming Essentials in Python

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Anumu Venkataramana

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

16 Mar 2019

Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

Statement of Achievement

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Beeram Priya

Student

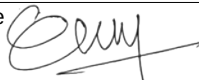**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

Academy Name

India

Location

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Ekkaladevi Srinivas Sanjana

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
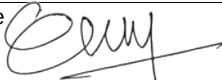
Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 10, 2019

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Instructor's Signature

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Ganji Naga Sai Mahith

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
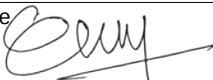
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India

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ESWAR BABU BANALA

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Giddalapati Vaishnavi
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

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Date

Instructor's Signature

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Ginne Abhinaya sri

Student

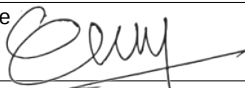**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 7, 2019

Date

Instructor's Signature

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K Shashank

Student

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Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 10, 2019

Date

Instructor's Signature

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KALYAN GOURU
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

Mar 10, 2019
Date

Instructor's Signature

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Somesh Sai Katam
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

Mar 7, 2019
Date

Instructor's Signature

PYTHON INSTITUTE
Open Education & Development Group

Statement of Achievement

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Keetha Hemanth
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

Mar 7, 2019
Date

Instructor's Signature

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Sai Vardhan konduri

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 7, 2019

Date

Instructor's Signature

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Open Education & Development Group

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M.P Soundarya

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 7, 2019

Date

Instructor's Signature

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Machugari Akila

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
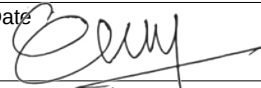
Academy Name

India

Location

ESWAR BABU BANALA

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Mar 10, 2019

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Mohammed Ali

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

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MOHAMMED FURQAN

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Feb 4, 2019

Date

Instructor's Signature

PYTHON INSTITUTE
Open Education & Development Group

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Myadam Aarthi
Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Academy Name

India
Location

ESWAR BABU BANALA
Instructor

Mar 10, 2019
Date

Instructor's Signature

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PATLURI PALLAVI

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 16, 2019

Date

Instructor's Signature

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P sreeshma Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India
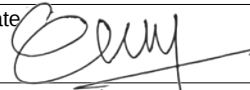
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Vemulapalli Bharath Sai

Student

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SAIRAM VILASAGARAM

Student

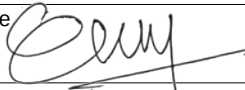**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**

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SWATHI VORSU

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

ESWAR BABU BANALA

Instructor

Mar 16, 2019

Date

Instructor's Signature

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2017-18 /1

Date: 31-07-2017

CIRCULAR

The Department of Information Technology will be conducting a value added course on **"Python Programming"** for the benefit of B.Tech students. These could be scheduled from **07-08-2017 to 28-10-2017**. The interested students should register for the course on or before **05-08-2017**.

All the registered students must attend the classes and solve all the assignments without fail. The following faculty members are assigned to handle the course as instructors.

S.No.	Course Name	Name of the Instructor	Designation
1	Python Programming	Mr. B Eswar Babu	Associate Professor

HoD

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3. IT Class Students

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Vidya Jyothi Institute of Technology
Hmayatnagar (Vill), C. B. Post,
Hyderabad-75.

Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Python Programming

Course Outcomes:

After completing this course the student must able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

Introduction - History, Features, Setting up path, Working with Python, Basic Syntax, Variable and Data Types, Operators

Input-Output - Printing on screen, Reading data from keyboard, Opening and closing file, Reading and writing files, Functions

Conditional Statements - If, If- else, Nested if-else

Looping - For, While, Nested loops

Control Statements - Break, Continue, Pass

String Manipulation - Accessing Strings, Basic Operations, String slices, Function and Methods

Lists - Introduction, Accessing list, Operations, Working with lists, Function and Methods

Tuple - Introduction, Accessing tuples, Operations, Working, Functions and Methods

Dictionaries - Introduction, Accessing values in dictionaries, working with dictionaries, Properties, Functions

Functions - Defining a function, calling a function, Types of functions, Function Arguments, Anonymous functions, Global and local variables

Modules - Importing module, Math module, Random module, Packages, Composition

Exception Handling - Exception, Exception Handling, Except clause, Try ? Finally clause, User Defined Exceptions
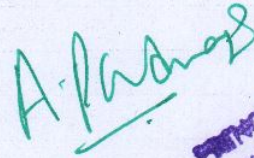
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Department of Information Technology

Date: 07-08-2017

List of Registered Students – Python Programming

S. No.	H T No.	Name
1	16911A1201	ADHURTHI PRIYANKA
2	16911A1202	AKKALDEVI RASHMITHA
3	16911A1204	ANUMULA VIJAY KUMAR
4	16911A1206	BEGARI AKHILESH
5	16911A1207	BODAPATI YUGANDHARI
6	16911A1208	BODDUPELLI RAJKUMAR
7	16911A1210	D VEDANTH
8	16911A1212	ETTA SHIVA KUMAR
9	16911A1214	GADDI PAVAN KALYAN
10	16911A1216	GANGIDI PRADEEP REDDY
11	16911A1218	GOPI SRIKANTH
12	16911A1221	K KEERTHAN
13	16911A1222	K RUTHVIKA REDDY
14	16911A1227	KONDA SHASHANK GOUD
15	16911A1230	M YUGANDHAR RAJ
16	16911A1231	MANDARAM SNEHA
17	16911A1232	MANDHUMULA AMITH REDDY
18	16911A1233	MANGALKUNTLA SUREKHA REDDY
19	16911A1236	MOHAMMED ADIL
20	16911A1238	MUCHARLA KARTHIK REDDY
21	16911A1240	NAGULWAR AMAN VISTARI
22	16911A1242	NAMALA REBECCA AISHWARYA
23	16911A1245	PARSHAPU PRAVALIKA
24	16911A1248	POCHABOINA SHIVA TEJA
25	16911A1251	PUTTA SIDDHARTH GOUD
26	16911A1253	SAADHIKA YALAVARTHI
27	16911A1258	YADAGIRI PRIYANKA
28	15911A1231	KASARAPU SUMAN PRAKASH
29	15911A1202	ADDANKI NAVYA
30	15911A1205	ALLA VENKAT REDDY
31	15911A1208	BOTSA JAYALAXMI
32	15911A1210	BUKKA MANISHA
33	15911A1211	BURRA ANUSHA GOUD
34	15911A1212	CHILUKURI LAKSHMI TEJASWI
35	15911A1213	CHITHANOORI SREEJA
36	15911A1216	DODDI MANIRAJ

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37	15911A1218	GAGGANAPALLY AKHIL REDDY
38	15911A1220	GOPISHETTI AKHIL
39	15911A1222	JALDA NANDINI
40	15911A1223	JELLA SAI VENKAT
41	15911A1224	JUNUTHULA NIKHILA SHARMA
42	15911A1227	K K ARVIND
43	15911A1229	KALAL AKHILA
44	15911A1230	KANDHADA CHANDANA REDDY
45	15911A1233	KOTHA PRABHUSAI
46	15911A1236	MAHESHWARAM SAITEJA
47	15911A1238	KOTLA MANIDEEP
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49	15911A1242	NAGULA SWAMY TARUN KUMAR
50	15911A1243	NIKAM CHANDINI
51	15911A1244	PYNAMOLLA SAI KUMAR
52	15911A1247	RITESH KUMAR
53	15911A1249	SAI PRASAD NALLABOTHU
54	15911A1250	SAMBANGI NIKILESH KUMAR
55	15911A1251	SHAIK AZEMA BEGUM
56	15911A1254	TEEGALA NAVANEETHA
57	15911A1255	THAKUR NIHARIKA
53	15911A1257	VAIDYA NIKHITH KUMAR
54	15911A1258	VIDHI ALPESH KUMAR SHAH
55	15911A1259	VITTEDI VAMSHI

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Department of Information Technology

Ref: VJIT/IT/VAC/2017-18 /2

Date: 28-12-2017

CIRCULAR

The Department of Information Technology will be conducting a value added course on **"Java J2EE Training"**, **"Database & SQL"** for the benefit of B.Tech students. These could be scheduled from **08-01-2018 to 31-03-2018**. The interested students should register for the course on or before 7-01-2018.

All the registered students must attend the classes and solve all the assignments without fail. The following faculty members are assigned to handle the course as instructors.

S.No.	Course Name	Name of the Instructor	Designation
1	Java J2EE Training	Mr. D Anil	Associate Professor
2	Database & SQL	Mrs. D Anuradha	Assistant Professor

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Himayathnagar (Vill), C.B. Post.
Hyderabad-75.

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3. B.Tech Students

Java J2EE Training

Course Outcomes:

After completing this course the student must able to

1. Create Web Applications using **Java** Servlet and Manage Web Session using Servlet and JSP.
2. Use JavaBeans in JSP, Develop Custom Tags in JSP.
3. Handle Errors and Exceptions in Web Applications.
4. Use NetBeans IDE for creating J2EE Applications

Module 1: Core Java – Data types, Variables, Control Statements, OOP – Classes, Objects, Encapsulation, Inheritance, Polymorphism, Exception Handling, Database Connectivity

Module 2: Introduction to Web – HTML, CSS, JavaScript

Module 3: Introduction to J2EE - What is J2EE? , What does j2ee comprise?

Module 4: Servlets - Servlet terminology, Servlet API, Generic Servlet, Http Servlet, Servlet Life Cycle, Session Tracking in Servlets, Servlet Collaboration, JDBC in servlet, Servlet Pagination

Module 5: JSP - JSP introduction, JSP with Life cycle, JSP API, Scripting elements, scriptlet tag, expression tag, declaration tag, Implicit Objects, Directive elements, page directive, include directive, taglib directive, Exception Handling, Action Elements, Expression Language, MVC in JSP, JSTL, Custom tags, JSP pagination, JDBC in JSP, Development in JSP

Module 6: EJB (Enterprise JavaBeans) - What is EJB, What is enterprise java beans (EJB) and what are the advantages of EJB?, Session Bean, The session bean represents the business logic, stateless, stateful or singleton, Stateless Session Bean, What is stateless session bean, its lifecycle and example, Stateful Session Bean, What is stateful session bean, its lifecycle and example.

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Department of Information Technology

Date: 08-01-2018

List of Registered Students – J2EE Training

S. No.	H T No	Name
1	15911A1201	A NAGA HAARIKA CHOWDHARY
2	15911A1202	ADDANKI NAVYA
3	15911A1203	AGAM LAXMAN GOUD
4	15911A1204	AGAM RAMU GOUD
5	15911A1205	ALLA VENKAT REDDY
6	15911A1206	ANKAM KALYAN
7	15911A1207	AVUTHU SARITHA
8	15911A1208	BOTSA JAYALAXMI
9	15911A1209	BUCHANNA GARI KALYAN REDDY
10	15911A1210	BUKKA MANISHA
11	15911A1211	BURRA ANUSHA GOUD
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13	15911A1213	CHITHANOORI SREEJA
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16	15911A1216	DODDI MANIRAJ
17	15911A1217	EMMADI SAINATH REDDY
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27	15911A1228	KADAM RANJITH
28	15911A1229	KALAL AKHILA
29	15911A1230	KANDHADA CHANDANA REDDY
30	15911A1233	KOTHA PRABHUSAI
31	15911A1234	KUKKALA MADHURI
32	15911A1235	LOKANANDI RAM KUMAR
33	15911A1236	MAHESHWARAM SAITEJA

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34	15911A1237	MEKA VIJAYCHAND
35	15911A1238	KOTLA MANIDEEP
36	15911A1239	MUNIKOTI SAI NIKHILA
37	15911A1240	MUDHAGOUNI KAVITHA
38	15911A1241	MUKKALA HARITHA
39	15911A1242	NAGULA SWAMY TARUN KUMAR
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49	15911A1253	SUBARAN SUKESH KUMAR
50	15911A1254	TEEGALA NAVANEETHA
51	15911A1255	THAKUR NIHARIKA
52	15911A1256	UDAYA SRI AEDAKULA
53	15911A1257	VAIDYA NIKHITH KUMAR
54	15911A1258	VIDHI ALPESH KUMAR SHAH
55	15911A1259	VITTEDI VAMSHI
56	15911A1260	Y A BABURAO
57	14911A1225	M.ADITYA

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Database & SQL

Course Outcomes:

After completing this course the student must able to

1. Design Entity-Relationship Model for enterprise level databases.
2. Develop the database and provide restricted access to different users of database and formulate the Complex SQL queries.
3. Analyze various Relational Formal Query Languages and various Normal forms to carry out Schema refinement.
4. Use of suitable Indices and Hashing mechanisms for real time implementation.
5. Analyze various concurrency control protocols and working principles of recovery algorithms

1. Introduction to SQL

(What is SQL?, Purpose of SQL, Who should learn SQL?, What are the subsets of SQL?, Data Definition Language, Data Manipulation Language, Data Control Language, and SQL vs. NoSQL)

2. Introduction to Databases and RDMBS

(What is a Database?, Database Objects, Database Tables, Table Records, Types of Database Management Systems, Relational Database Management Systems, and SQL/Relational Databases vs. No SQL Databases)

3. Install a Database Engine

(Download MS SQL Server or Oracle or MySQL Database Engine, and Install. Launch SQL Server Management Studio, Select New Query, and launch SQL Query. Type SQL Commands and Execute.)

4. SQL Syntax

(Focus on SQL Syntax, SQL keywords, SQL is not case sensitive, SQL Comments, SQL Commands, and writing SQL Statements.)

5. SQL Data Types

(SQL Numeric data types, Date and Time data types, Character and String data types, Unicode character string data types, Binary data types, and Miscellaneous data types.)

6. SQL Operators

(SQL Arithmetic Operators, Comparison Operators, Logical Operators, and Bitwise Operators)

7. SQL Expressions

(SQL Boolean Expression, SQL Numeric Expression, and SQL Date Expression)

8. SQL Comments

(SQL Comments, Comments are used to explain sections of SQL statements, or to prevent the execution of SQL statements. Single-Line Comments, and Multi-line Comments)

9. SQL – Data Definition Language Commands and Operations.

(SQL Data Definition Language Commands, Create, Alter, Drop, Truncate, and Rename.

Data Definition Language Operations, Create a Database, Use Database, Rename a Database, Drop Database, Create a Table, Rename Table, Add a Column to exiting Table, Add multiple columns to existing Table, Modify an existing column, Rename a Column, Drop a Column, Truncate a Table, and Drop a Table.)

10. SQL – Data Manipulation Language Commands and Operations
(Data Manipulation Language Commands, SELECT, INSERT, UPDATE, and DELETE.

Data Manipulation Language Operations, Retrieving data from a table, Inserting data into a table, Updating existing data into a table, and Deleting all records from a table.)

13. SQL – Data Control Language Commands

14. DCL Operations

(Providing the users the access or privileges to the database objects, and Taking back or canceling the privileges or permissions previously allowed or denied to the users.)

15. SQL Functions

16. SQL Queries and Sub Queries

17. SQL Clauses

18. SQL Joins

19. SQL Views

20. SQL Indexes

21. SQL Transactions

22. SQL Injection

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Department of Information Technology

Date: 08-01-2018

List of Registered Students – Database & SQL

S. NO.	H T NO.	NAME
1	16911A1203	AKKU RAJESHWAR
2	16911A1205	BADAVATH DIVYA
3	16911A1209	D ANEELA CHOWDARY
4	16911A1211	DIRISHALA PAVANI
5	16911A1213	GADDAM SIDDHARTH
6	16911A1215	GANDHAM SANDYA
7	16911A1217	GOLLAKARAM YASHWANTH VENKAT SAMRAT
8	16911A1219	GUNTUKA ANUHYA
9	16911A1220	JADHAV YOGESH
10	16911A1223	KARAMTHOT SAI KIRAN RATHOD
11	16911A1224	KOKKILIGADDA HIMAJA
12	16911A1225	KOLLALSI GOVARDHANI
13	16911A1226	KOMMADDU GOPI KRISHNA
14	16911A1228	KONDAPALLY POORVITHA
15	16911A1234	METTU SREEVARSHA
16	16911A1235	MOHAMMAD ROSHAN
17	16911A1237	MOHIT CHOKDA
18	16911A1239	N RANJITHA
19	16911A1241	NALIMELA MADHUSHA
20	16911A1243	PALLAPU KARTHIK
21	16911A1244	PAREPALLY SUGANDHINI
22	16911A1246	PASULA HEMANTH
23	16911A1247	PILLALAMARI ANIRUDH
24	16911A1249	POLASA SAI JYOTHI
25	16911A1250	POLASANI MOUNIKA
26	16911A1252	S SAI SIDHARTHA
27	16911A1256	THAKUR MANISHA
28	16911A1257	VDDAGIRI SHIVAKRISHNA
29	16911A1259	YENNARAM VAISHNAVI
30	16911A1260	ZEBA HUSNA
31	15911A1246	R SHIVA SHANKAR
32	15911A1225	JYOTHI UMESH
33	15911A1201	A NAGA HAARIKA CHOWDHARY
34	15911A1203	AGAM LAXMAN GOUD
35	15911A1204	AGAM RAMU GOUD
36	15911A1206	ANKAM KALYAN

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38	15911A1209	BUCHANNA GARI KALYAN REDDY
39	15911A1214	DEVULAPALLY ARAVIND REDDY
40	15911A1215	DHARAVATH MAHESH
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52	15911A1248	SAGAR TIVARI
53	15911A1252	SOMIREDDY MADHAVI
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55	15911A1256	UDAYA SRI AEDAKULA
56	15911A1260	Y A BABURAO

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Department of Information Technology

Ref: VJIT/IT/VAC/2016-17 /1

Date: 01.08.2016

CIRCULAR

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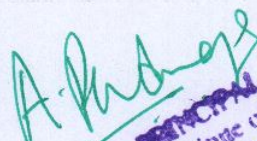
The instructors for the above courses are as follows

S. No.	Course Name	Name of the Instructor	Designation
1	Python Programming	B Eswar Babu	Assoc. Prof

All the registered students must attend the classes and solve all the assignments without fail.

HoD

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3. B.Tech Students

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Department of Information Technology

Python Programming

Course Outcomes:
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1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
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Control Statements - Break, Continue, Pass

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Tuple - Introduction, Accessing tuples, Operations, Working, Functions and Methods

Dictionaries - Introduction, Accessing values in dictionaries, working with dictionaries, Properties, Functions

Functions - Defining a function, calling a function, Types of functions, Function Arguments, Anonymous functions, Global and local variables

Modules - Importing module, Math module, Random module, Packages, Composition

Exception Handling - Exception, Exception Handling, Except clause, Try ? Finally clause, User Defined Exceptions

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Department of Information Technology

Date: 06.08.2016

List of Registered Students – Python Programming

S. NO.	ROLL NO	STUDENT NAME
1	14911A1202	ALAMDAR DASHTEE
2	14911A1204	ARUN ABHISHEK CHOWHAN
3	14911A1207	B. SRUTHI
4	14911A1208	BANDLA RAMYASRI
5	14911A1211	BULUSU KAMESWARI KEERTHI
6	14911A1212	D. NIKHIL REDDY
7	14911A1215	E SWATHI
8	14911A1217	GOLE NISCHAL REDDY
9	14911A1219	GUDEPU RANADEEP
10	14911A1220	K. POOJA NIKITHA
11	14911A1222	M. HARI KRISHNAN NAIR
12	14911A1224	MADDERLA ANAND RAKESH
13	14911A1228	MUKKALA RAJITHA
14	14911A1230	MYSANI SHIVA SAI RAM
15	14911A1232	NATHAMGARI SURAJ KUMAR
16	14911A1236	PALLAPU VINOD KUMAR
17	14911A1237	PARIGI SRI HAINDAVI
18	14911A1238	PARVATHANENI YESHWANT
19	14911A1240	PUSA BHARAT KUMAR
20	14911A1241	RAVIKANTI SANTHOSH
21	14911A1243	SIRISALA BHARGAVI
22	14911A1244	SOHINI SHIVA PRASAD
23	14911A1245	T ANUSHA
24	14911A1247	THANDA BINDU
25	14911A1250	VISHWANATH PRANEETHA
26	15911A1203	AGAM LAXMAN GOUD
27	15911A1204	AGAM RAMU GOUD
28	15911A1206	ANKAM KALYAN
29	15911A1207	AVUTHU SARITHA
30	15911A1208	BOTSA JAYALAXMI
31	15911A1209	BUCHANNA GARI KALYAN REDDY
32	15911A1210	BUKKA MANISHA
33	15911A1211	BURRA ANUSHA GOUD
34	15911A1212	CHILUKURI LAKSHMI TEJASWI
35	15911A1213	CHITHANOORI SREEJA
36	15911A1214	DEVULAPALLY ARAVIND REDDY

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38	15911A1220	GOPISHETTI AKHIL
39	15911A1221	JAINA SAICHANDRA
40	15911A1222	JALDA NANDINI
41	15911A1224	JUNUTHULA NIKHILA SHARMA
42	15911A1226	K HIMAJA
43	15911A1227	K K ARVIND
44	15911A1229	KALAL AKHILA
45	15911A1230	KANDHADA CHANDANA REDDY
46	15911A1233	KOTHA PRABHUSAI
47	15911A1235	LOKANANDI RAM KUMAR
48	15911A1236	MAHESHWARAM SAITEJA
49	15911A1237	MEKA VIJAYCHAND
50	15911A1238	KOTLA MANIDEEP
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53	15911A1244	PYNAMOLLA SAI KUMAR
54	15911A1245	R HARI KANTH
55	15911A1247	RITESH KUMAR
56	15911A1248	SAGAR TIVARI
57	15911A1252	SOMIREDDY MADHAVI
58	15911A1256	UDAYA SRI AEDAKULA
59	15911A1257	VAIDYA NIKHITH KUMAR
60	15911A1258	VIDHI ALPESH KUMAR SHAH

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2016-17 /2

Date: 02.01.2017

CIRCULAR

The Department of Information Technology will be organizing Value Added Courses on **Java J2EE Training and Database & SQL** for the benefit of the students. These courses will be scheduled from **09.01.2017 – 01.04.2017**. The interested students should register for the courses by **06.01.2017**.
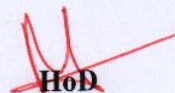
The instructors for the above courses are as follows
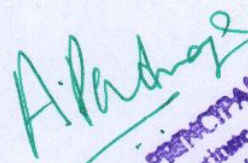
S. No.	Course Name	Name of the Instructor	Designation
1	Java J2EE Training	D Anil	Assoc. Prof
2	Database & SQL	M Suresh Babu	Asst. Prof

All the registered students must attend the classes and solve all the assignments without fail.

HoD

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1. The Principal Office
2. Notice Board
3. B.Tech Students

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Department of Information Technology

Java J2EE Training

Course Outcomes:
After completing this course the student must able to
1. Create Web Applications using **Java** Servlet and Manage Web Session using Servlet and JSP.
2. Use JavaBeans in JSP, Develop Custom Tags in JSP.
3. Handle Errors and Exceptions in Web Applications.
4. Use NetBeans IDE for creating J2EE Applications

Module 1: Core Java – Data types, Variables, Control Statements, OOP – Classes, Objects, Encapsulation, Inheritance, Polymorphism, Exception Handling, Database Connectivity

Module 2: Introduction to Web – HTML, CSS, JavaScript

Module 3: Introduction to J2EE - What is J2EE? , What does j2ee comprise?

Module 4: Servlets - Servlet terminology, Servlet API, Generic Servlet, Http Servlet, Servlet Life Cycle, Session Tracking in Servlets, Servlet Collaboration, JDBC in servlet, Servlet Pagination

Module 5: JSP - JSP introduction, JSP with Life cycle, JSP API, Scripting elements, scriptlet tag, expression tag, declaration tag, Implicit Objects, Directive elements, page directive, include directive, taglib directive, Exception Handling, Action Elements, Expression Language, MVC in JSP, JSTL, Custom tags, JSP pagination, JDBC in JSP, Development in JSP

Module 6: EJB (Enterprise JavaBeans) - What is EJB, What is enterprise java beans (EJB) and what are the advantages of EJB?, Session Bean, The session bean represents the business logic, stateless, stateful or singleton, Stateless Session Bean, What is stateless session bean, its lifecycle and example, Stateful Session Bean, What is stateful session bean, its lifecycle and example.

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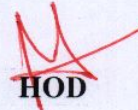Himayatnagar (Vill), C. B. Post.
Hyderabad-75.
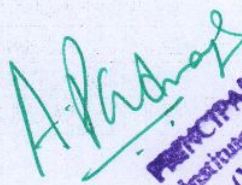
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Department of Information Technology

Date: 05.01.2017

List of Registered Students – Java J2EE Training

S. No.	ROLL NO	STUDENT NAME
1	14911A1201	A. JITHENDHAR REDDY
2	14911A1202	ALAMDAR DASHTEE
3	14911A1203	ANNAPUREDDY AKHIL KUMAR REDDY
4	14911A1204	ARUN ABHISHEK CHOWHAN
5	14911A1206	B. NIKHIL
6	14911A1207	B. SRUTHI
7	14911A1208	BANDLA RAMYASRI
8	14911A1209	BIJJALA LAKSHMAN SAHITH
9	14911A1210	BUDDOLU TEJA SREE
10	14911A1211	BULUSU KAMESWARI KEERTHI
11	14911A1212	D. NIKHIL REDDY
12	14911A1213	NAMALA TEJABABU
13	14911A1214	DURGAM PRUTHVI GOUD
14	14911A1215	E SWATHI
15	14911A1216	GANJI NAVYA DARSHINI
16	14911A1217	GOLE NISCHAL REDDY
17	14911A1218	GOPIREDDY PRADEEP
18	14911A1219	GUDEPU RANADEEP
19	14911A1220	K. POOJA NIKITHA
20	14911A1221	K. PRANEETH REDDY
21	14911A1222	M. HARI KRISHNAN NAIR
22	14911A1223	M. PRANAVI
23	14911A1224	MADDERLA ANAND RAKESH
24	14911A1226	MORAMPUDI MANOJ KARTHIK
25	14911A1227	MOTHARAPU VIJAY
26	14911A1228	MUKKALA RAJITHA
27	14911A1229	MUSALIGARI SATHISH REDDY
28	14911A1230	MYSANI SHIVA SAI RAM
29	14911A1231	N. LAKSHMI SPANDANA
30	14911A1232	NATHAMGARI SURAJ KUMAR
31	14911A1233	P. ABHISHEK
32	14911A1234	PAKEERU SREEJA
33	14911A1235	PALLAPATI REETHIKA
34	14911A1236	PALLAPU VINOD KUMAR
35	14911A1237	PARIGI SRI HAINDAVI
36	14911A1238	PARVATHANENI YESHWANT
37	14911A1239	POKALA DIVYA
38	14911A1240	PUSA BHARAT KUMAR
39	14911A1241	RAVIKANTI SANTHOSH
40	14911A1242	SIRIPALLI NAGA VENKATA MAHENDRA

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41	14911A1243	SIRISALA BHARGAVI
42	14911A1244	SOHINI SHIVA PRASAD
43	14911A1245	T ANUSHA
44	14911A1246	T. SAI KRISHNA KISHORE
45	14911A1247	THANDA BINDU
46	14911A1248	VEJALLA SUMANTH
47	14911A1249	VEMULA MANOGNA
48	14911A1250	VISHWANATH PRANEETHA

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Department of Information Technology

Database & SQL

Course Outcomes:

After completing this course the student must able to

1. Design Entity-Relationship Model for enterprise level databases.
2. Develop the database and provide restricted access to different users of database and formulate the Complex SQL queries.
3. Analyze various Relational Formal Query Languages and various Normal forms to carry out Schema refinement.
4. Use of suitable Indices and Hashing mechanisms for real time implementation.
5. Analyze various concurrency control protocols and working principles of recovery algorithms

1. Introduction to SQL
(What is SQL?, Purpose of SQL, Who should learn SQL?, What are the subsets of SQL?, Data Definition Language, Data Manipulation Language, Data Control Language, and SQL vs. NoSQL)

2. Introduction to Databases and RDMBS
(What is a Database?, Database Objects, Database Tables, Table Records, Types of Database Management Systems, Relational Database Management Systems, and SQL/Relational Databases vs. No SQL Databases)

3. Install a Database Engine
(Download MS SQL Server or Oracle or MySQL Database Engine, and Install. Launch SQL Server Management Studio, Select New Query, and launch SQL Query. Type SQL Commands and Execute.)

4. SQL Syntax
(Focus on SQL Syntax, SQL keywords, SQL is not case sensitive, SQL Comments, SQL Commands, and writing SQL Statements.)

5. SQL Data Types
(SQL Numeric data types, Date and Time data types, Character and String data types, Unicode character string data types, Binary data types, and Miscellaneous data types.)

6. SQL Operators
(SQL Arithmetic Operators, Comparison Operators, Logical Operators, and Bitwise Operators)

7. SQL Expressions
(SQL Boolean Expression, SQL Numeric Expression, and SQL Date Expression)

8. SQL Comments
(SQL Comments, Comments are used to explain sections of SQL statements, or to prevent the execution of SQL statements. Single-Line Comments, and Multi-line Comments)

9. SQL – Data Definition Language Commands and Operations.
(SQL Data Definition Language Commands, Create, Alter, Drop, Truncate, and Rename.

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Data Definition Language Operations, Create a Database, Use Database, Rename a Database, Drop Database, Create a Table, Rename Table, Add a Column to exiting Table, Add multiple columns to existing Table, Modify an existing column, Rename a Column, Drop a Column, Truncate a Table, and Drop a Table.)

10. SQL – Data Manipulation Language Commands and Operations
(Data Manipulation Language Commands, SELECT, INSERT, UPDATE, and DELETE.

Data Manipulation Language Operations, Retrieving data from a table, Inserting data into a table, Updating existing data into a table, and Deleting all records from a table.)

13. SQL – Data Control Language Commands

14. DCL Operations

(Providing the users the access or privileges to the database objects, and Taking back or canceling the privileges or permissions previously allowed or denied to the users.)

15. SQL Functions

16. SQL Queries and Sub Queries

17. SQL Clauses

18. SQL Joins

19. SQL Views

20. SQL Indexes

21. SQL Transactions

22. SQL Injection

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Department of Information Technology

Date: 05.01.2017

List of Registered Students – Database & SQL

S. NO.	ROLL NO	STUDENT NAME
1	14911A1202	ALAMDAR DASHTEE
2	14911A1207	B. SRUTHI
3	14911A1217	GOLE NISCHAL REDDY
4	14911A1218	GOPIREDDY PRADEEP
5	14911A1219	GUDEPU RANADEEP
6	14911A1223	M. PRANAVI
7	14911A1224	MADDERLA ANAND RAKESH
8	14911A1228	MUKKALA RAJITHA
9	14911A1229	MUSALIGARI SATHISH REDDY
10	14911A1230	MYSANI SHIVA SAI RAM
11	14911A1236	PALLAPU VINOD KUMAR
12	14911A1237	PARIGI SRI HAINDAVI
13	14911A1238	PARVATHANENI YESHWANT
14	14911A1240	PUSA BHARAT KUMAR
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18	14911A1248	VEJALLA SUMANTH
19	14911A1249	VEMULA MANOGNA
20	14911A1250	VISHWANATH PRANEETHA
21	15911A1201	A NAGA HAARIKA CHOWDHARY
22	15911A1202	ADDANKI NAVYA
23	15911A1203	AGAM LAXMAN GOUD
24	15911A1206	ANKAM KALYAN
25	15911A1207	AVUTHU SARITHA
26	15911A1210	BUKKA MANISHA
27	15911A1211	BURRA ANUSHA GOUD
28	15911A1212	CHILUKURI LAKSHMI TEJASWI
29	15911A1213	CHITHANOORI SREEJA
30	15911A1216	DODDI MANIRAJ
31	15911A1217	EMMADI SAINATH REDDY
32	15911A1220	GOPISHETTI AKHIL
33	15911A1221	JAINA SAICHANDRA
34	15911A1222	JALDA NANDINI
35	15911A1223	JELLA SAI VENKAT
36	15911A1227	K K ARVIND

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37	15911A1228	KADAM RANJITH
38	15911A1229	KALAL AKHILA
39	15911A1230	KANDHADA CHANDANA REDDY
40	15911A1233	KOTHA PRABHUSAI
41	15911A1234	KUKKALA MADHURI
42	15911A1235	LOKANANDI RAM KUMAR
43	15911A1236	MAHESHWARAM SAITEJA
44	15911A1237	MEKA VIJAYCHAND
45	15911A1238	KOTLA MANIDEEP
46	15911A1239	MUNIKOTI SAI NIKHILA
47	15911A1240	MUDHAGOUNI KAVITHA
48	15911A1241	MUKKALA HARITHA
49	15911A1242	NAGULA SWAMY TARUN KUMAR
50	15911A1243	NIKAM CHANDINI
51	15911A1247	RITESH KUMAR
52	15911A1248	SAGAR TIVARI
53	15911A1249	SAI PRASAD NALLABOTHU
54	15911A1250	SAMBANGI NIKILESH KUMAR
55	15911A1251	SHAIK AZEMA BEGUM
56	15911A1252	SOMIREDDY MADHAVI
57	15911A1255	THAKUR NIHARIKA
58	15911A1256	UDAYA SRI AEDAKULA
59	15911A1259	VITTEDI VAMSHI
60	15911A1260	Y A BABURAO

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Ref: VJIT/IT/VAC/2015-16 /1

Department of Information Technology

Date: 20th December 2015

CIRCULAR

The Department of Information Technology is offering the value added courses in association with IIT Bombay Spoken Tutorials scheduled from 1st January 2016 – 30th June 2016.

S.No.	Name of the Course
1	Java
2	PHP and MySQL
3	Ruby

These courses shall be implemented for the academic year 2015-16. The students can register to interested courses on or before 30th December 2015.

All the registered students must attend the classes and solve all the assignments without fail. Students who have completed the course successfully with 40% only get the certificate from IITBombay Spoken tutorials.

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2. Notice Board
3. Class rooms

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The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new FLOSS (Free/Libre and Open Source Software)

Target Group

- Students - High School and College
- Working professional - Software users, developers and trainers
- Research scholars
- Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on Java and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.
For more details, please visit
https://spoken-tutorial.org

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.
For more details, please visit
https://forums.spoken-tutorial.org.

Spoken Tutorial
https://spoken-tutorial.org

The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

Scan the QR code to visit Spoken Tutorial website

Contact us

Email: contact@spoken-tutorial.org
Website: https://spoken-tutorial.org

Content available in 22 Indian languages

Forum help available to all learners

Java

National Mission on Education through Information and Communication Technology (NMEICT)
www.sakshat.ac.in

IIT Bombay

Introduction

- Java is the most popular class-based, object-oriented, high-level programming language.

- Developed by James Gosling at Sun Microsystems and released in 1995 as a core component of Sun Microsystems' Java platform.

- Derives much of its syntax from C and C++.

- Is typically compiled to bytecode (class file). It can be run on any Java Virtual Machine (JVM) regardless of the architecture.

- Is specifically designed to have few implementation dependencies.

- Is Intended to let application developers write a code that runs on one platform & does not need to be recompiled to run on another.

Java has characteristics of Object-Oriented languages

- **Inheritance:** Creating new classes & extending them to reuse the existing code and adding new features as needed.

- **Encapsulation:** combining the information and providing the abstraction.

- **Polymorphism:** Providing different functionlity by the functions having the same name, based on the signatures of the methods.

- **Dynamic binding:** Providing maximum functionality to a program about the specific type at runtime.

Features

Platform independence.
Key feature of Java language is write-once-run-anywhere (WORA) concept. With Java, you can run the code written on any system.

Simplicity:
Programs are easy to write and debug. Java provides a bug-free system due to strong memory management.

Portability: Java feature write-once-run-any-where makes it portable, provided that the system has an interpreter for JVM. Also, Java has standard data size irrespective of the OS or the processor.

Performance: Uses native code and lightweight process called threads.
The advance version of JVM uses adaptive and just-in-time compilation technique to improve the total performance.

Distributed: Widely used protocols like HTTP and FTP are developed in Java. Internet programmers can call functions on these protocols and can access the files from any remote machine on the internet, rather than writing codes on their local system.

Secure:

- Programs in Java run under an area known as the sandbox.

- Security manager determines the accessibility options of a class like reading and writing a file to the local disk.

- Uses public key encryption system to allow the java applications to transmit over the internet, in a secure and encrypted form.

- The bytecode verifier checks the classes after loading.

Robust:
Java has

- Strong memory allocation.

- Automatic garbage collection mechanism.

- Powerful exception handling.

- Type-checking mechanism.

- A compiler that checks the program for any errors and interpreter checks any runtime errors and makes the system secure from crashes.

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Department of Information Technology

JAVA

Course Outcomes:

At the end of the course the student should be able to:

1. Understand OOP concepts to apply basic Java constructs

2. Analyze different forms of inheritance and handle different kinds of file I/O

3. Evaluate the usage of Exception Handling and Multithreading in complex Java programs

4. Contrast different GUI layouts and design GUI applications

5. Construct a full-fledged Java GUI application, and Applet with database connectivity

1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
   http://spoken-tutorial.org/tutorial-search/

2. You can also download the Spoken Tutorials for offline learning from :
   http://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the commands shown in the video.

4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 Java

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Java".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. Start with the first tutorial in the displayed list.

4 First tutorial: Getting started with Java Installation

1. Locate the topic "Getting started with Java Installation" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6. At 2:56 mins, pause the video.

4.1 Open Terminal on Linux OS

(a) The video says that you need to use the "Terminal" and "gedit text editor" in Linux OS.

(b) The tutorials are explained on the Linux OS.

(c) It will be easy for Linux users to follow as instructed in the tutorial.

4.2 Open Command Prompt on Windows OS

(a) On Windows, one has to use "Command prompt" and "Notepad++ text editor" instead of "Terminal" and "gedit text editor".

(b) To open the "Command Prompt" on Windows, press the "Windows" key and "R" key simultaneously on your keyboard. It will open the "Run" prompt.

(c) At the prompt, type "cmd" and click on "Ok".

(d) This will open the "Command" prompt.

(e) Notepad++ can be opened from Start >> Applications >> Notepad++.

7. Play-pause-practise the whole tutorial.

8. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player

9. Follow all the above instructions, till you complete the first 2 tutorials.

10. Third tutorial, Installing Eclipse will teach how to install Eclipse on Linux.

11. For Eclipse - Windows Installation procedure, refer the Java - Installation Sheet.

5 Fourth tutorial : Getting started Eclipse

1. From here onwards, the remaining tutorials are explained using the Eclipse IDE.

2. The commands shown, will work on both Linux OS and Windows OS.

3. Follow all the instructions given in the individual tutorials and reproduce all the commands as shown.

5.1 Instructions to practise

(a) Create a folder on the "Desktop" with your "Name-RollNo-Component". (Eg. "prathamesh-04-java").

(b) Give a unique name to the files you save, so as to recognize it next time. (Eg. "Practice-1-java").

(c) Remember to save all your work in your folder.

(d) This will ensure that your files don't get over-written by someone else.

(e) Save your work from time to time, instead of saving it at the end of the task.

5.2 Common instructions for Assignments

(a) Attempt the Assignments as instructed in the tutorial.

(b) Save your work in your folder.

5.3 Common instructions to use Code files

(a) Click on the link "Code files" located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

4. Play-pause-practise the whole tutorial.

5. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

6. Follow all the above instructions, till you complete all the tutorials in the series.

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Department of Information Technology

Registered List of Students - JAVA (2015-16)

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1	14911A1202	ALAMDAR DASHTEE
2	14911A1204	ARUN ABHISHEK CHOWHAN
3	14911A1205	SUCHARITHA AVULA
4	14911A1208	RAMYASREE BANDLA
5	14911A1209	LAKSHMAN SAHITH BIJJALA
6	14911A1210	BUDDOL TEJA SREE
7	14911A1211	BULUSU KAMESWARI KEERTHI
8	14911A1213	NAMALA TEJA BABU
9	14911A1217	NISCHAL REDDY GOLE
10	14911A1219	PRADEEP REDDY GOPI
11	14911A1221	PRANEETH REDDY KOTHA
12	14911A1222	HARI KRISHNAN NAIR
13	14911A1223	PRANAVI MANDLAM
14	14911A1224	ANAND RAKESH MADDERLA
15	14911A1226	MANOJ KARTHIK MORAMPUDI
16	14911A1227	VIJAY MOTHARAPU
17	14911A1228	RAJITHA MUKKALA
18	14911A1229	SATISH REDDY MUSALIGARI
19	14911A1230	SHIVA SAI RAM MYSANI
20	14911A1231	LAKSHMI SPANDANA NARRAVULA
21	14911A1232	SURAJ KUMAR NATHAMGARI
22	14911A1233	ABHISHEK POLEPALLY
23	14911A1234	SREEJA PAKEERU
24	14911A1235	REETHIKA PALLAPATI
25	14911A1236	VINOD KUMAR PALLAPU
26	14911A1237	SRI HAINDAVI PARIGI
27	14911A1238	YESHWANT PARVATHANENI
28	14911A1240	BHARATH PUSA
29	14911A1241	SANTHOSH RAVIKANTI
30	14911A1242	N.V.MAHENDRA SIRIPALLI

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31	14911A1243	BHARGAVI SIRISALA
32	14911A1246	SAI KISHORE TANGELLA
33	14911A1247	BINDU GOUD THANDA
34	14911A1248	SUMANTH VEJALLA
35	14911A1249	MANOGNA REDDY VEMULA
36	14911A1250	PRANEETHA VISHWANATH
37	14911A1251	RAGAVENDAR RAO YELLANI
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HOD

Spoken Tutorial

php
MySQL®

The Spoken Tutorial project

The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: http://spoken-tutorial.org

IIT Bombay

The Spoken Tutorial project

*Self explanatory – uses simple language

*Audio-video - uses multisensory approach

*Small duration – has better retention

*Learner-centered – learn at your own pace

*Learning by doing - learn and practice simultaneously

*Empowerment – learn a new FOSS

Target Group

*Students – High School and College

*Working professional - Software users, developers and trainers

*Research scholars

*Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on PHP & MySQL and other FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to
contact@spoken-tutorial.org

PHP

Introduction

PHP or "PHP : Hypertext Preprocessor" is a widely-used Open Source general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. Its syntax draws upon C, Java and PERL, and is easy to learn.

The main goal of the language is to allow web developers to write dynamically generated web pages quickly, but you can do much more with PHP.

Uses of PHP.
- To create large websites
- For E-commerce like osCommerce, OpenCart
- To create online discussion forums like phpBB
- To create content management systems like Drupal, Joomla
- To create e-learning management systems like Moodle
- To develop web-based management tools like phpMyAdmin
And many more..

MySQL

Introduction

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. The SQL-phrase stands for Structured Query Language. Applications which use MySQL data bases include: Joomla, Word Press, MyBB, phpBB, Drupal and other software built on the LAMP software stack.

A third party open source software "phpMyAdmin" is used as a web-based front end for managing MySQL databases easily and effeciently. It is widely installed by Web hosts worldwide. Also it is included in the convenient LAMP, MAMP and WAMP software bundle installers.

MySQL is used in many high-profile, largescale World Wide Web products, including Wiki-pedia, Google and facebook.

Features of PHP & MySQL
- Scalability and flexibility
- High speed and high performance
- Data protection
- Comprehensive Application Development
- Management tools
And many more...

PHP & MySQL

Benefits
- A large chunk of facebook, the world's leading social networking site, has a huge code based in PHP and it uses MySQL as database to store information of 1 billion+ users!

- PHP is the most preferred language for web development by free-lance developers across the globe.

- Many free and open source CMS like Drupal, Moodle, etc. are created using PHP & MySQL.

- PHP & MySQL has a large user and developer community.

Links:

Original videos are available at http://phpacademy.org

PHP Official Website -http://www.php.net

MYSQL Official Website - http://www.mysgl.com

W3Schools - PHP and MySQL Tutorials - http://www.w3schools.com/php/default.asp http://www.w3schools.com/sql/default.asp =

These tutorials will help you get started with PHP programming. In this series we will go through the basics of installing and getting PHP ready for development, the basic syntax and features of the language.

PHP and MySQL

Course Outcomes:

At the end of the course the student should be able to:

1. Develop web applications using server side scripting language-PHP
2. Develop the database and provide restricted access to different users of database and formulate the Complex SQL queries in web applications.
3. Analyze various Relational Formal Query Languages and various Normal forms to carry out Schema refinement in web applications.

1 Online / Offline content

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http://spoken-tutorial.org/tutorial-search/

2. You can also download the Spoken Tutorials for offline learning from :
http://spoken-tutorial.org/cdcontent/

3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the steps shown in the video.

4. If you find it difficult to do the above, you may consider listening to the *whole* tutorial once and then practise during the second hearing.

3 PHP and MySQL

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "PHP and MySQL".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. In this series, first 2 tutorials will teach you about "How to install PHP & MySQL on Windows & Linux".

6. If you have already installed PHP & MySQL, skip these tutorials.

7. Start with the third tutorial "Echo Function" in the displayed list.

4 First tutorial: XAMPP in Windows

1. If you are a Windows User, locate the topic "XAMPP in Windows"

2. To view the tutorial, click on the Play icon which is located in the player.

3. This tutorial will teach how to install XAMPP on Windows OS.

4. Please note: There could be minor changes in the look and feel of newer versions of XAMPP. However, all the commands shown in the video will work in newer versions as well.

5 Second tutorial: XAMPP in Linux

1. If you are a Linux User, locate the topic "XAMPP in Linux"

2. To view the tutorial, click on the Play icon which is located in the player.

3. This tutorial will teach how to install XAMPP on Linux OS.

4. Please note: There could be minor changes in the look and feel of newer versions of XAMPP. However, all the commands shown in the video will work in newer versions as well.

6 Third tutorial: Echo Function

1. Locate the topic "Echo Function" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6.1 Instructions to practise on Windows OS

(a) The tutorials are explained on Windows OS.

(b) It will be easy for the Windows users to follow, as instructed in the tutorial.

(c) Before you begin to practise, kindly create a folder "phpacademy" inside the folder c:\xampp\htdocs

(d) Create the file helloworld.php in the folder c:\xampp\htdocs\phpacademy as it is required for this tutorial.

    i. To do this, open the **ConTEXT** editor.

    ii. Click on **File >> New >> Save As**.

    iii. Name the file as helloworld.php.

    iv. Remember to choose the location as c:\xampp\htdocs\phpacademy

    v. Now click on **Save** button.

(e) Please note that the path of phpacademy folder shown in the video is c:\xampp\htdocs\phpacademy

(f) This will be your working directory for all the tutorials.

(g) Henceforth, for all the videos, the .php and/or .html files should be created/copied in this directory.

(h) You are free to create subdirectories here for each tutorial, so that you can manage all your files in a better way.

6.2 Instructions to practise on Linux OS

(a) The tutorials are explained on Windows OS.

(b) To practise on Linux, follow these steps.

(c) Before begin your practice, kindly create a folder "phpacademy" inside the folder /opt/lampp/htdocs/

(d) Based on your installation, the web root path may vary as /opt/lampp/htdocs/ or /var/www/.

(e) Create the file helloworld.php in the folder /opt/lampp/htdocs/phpacademy as it is required for this tutorial.

(f) To do this, open the Terminal by pressing Ctrl-Alt-t keys simultaneously.

(g) Now type
cd /opt/lampp/htdocs/phpacademy in the Terminal and hit ENTER.

(h) Now type
gedit helloworld.php & and hit ENTER.

(i) Please note that the path of phpacademy folder shown in the video is c:\xampp\htdocs\phpacademy

(j) This is your working directory in Windows.

(k) But for Linux OS, the equivalent path is: /opt/lampp/htdocs/ or /var/www/

(l) This will be your working directory for all the tutorials.

(m) Henceforth, for all the videos, the .php and/or .html files should be created/copied in this directory.

(n) You are free to create subdirectories here for each tutorial, so that you can manage all your files in a better way.

6. Now resume the video and follow all the instructions.

7. Type all the code shown in the video in helloworld.php file and save it periodically, by clicking **File >> Save**.

8. At time 1:07 min, the video shows Firefox web browser to view helloworld.php file.

9. You can view this file in a separate tab or in a new web browser window.

10. Type http://localhost/phpacademy/ in the address bar of your Firefox browser.

11. Click helloworld.php.

12. This will open helloworld.php in the browser.

13. Every time you make some change to helloworld.php using gedit(Linux) or ConTEXT(Windows) editor, you should save your changes and refresh your web browser by pressing the F5 key, to reflect the changes.

14. In some of the future tutorials, Google Chrome is used as the web browser. But you can continue using Firefox or any other web browser.

15. From time 1:55 min, the video talks about parse error.

16. Please understand it carefully and try to reproduce the exact code as shown in the video.

17. Remember to save all your work in your folder.

18. This will ensure that your files don't get overwritten by someone else.

6.3 Common instructions for Assignments

(a) Attempt the `Assignments` as instructed in the tutorial.

(b) Save your work in your folder.

6.4 Common instructions to use Code files

(a) Click on the link "`Code files`" located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

19. Play-pause-practise the whole tutorial.

20. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

21. Follow all the above instructions, till you complete all the tutorials in the `Basic Level`.

7 Twenty-fifth tutorial: MySQL Part 1

1. At 07:05 Primary key option is different in the latest version.
   Click the drop down-box below the `Index` label and select "`Primary`". A new window opens to `Add index`.
   Click on the `Go` button to set the primary key.

2. At 07:08 - Auto-increment can be set by clicking the check box `A_I`

3. Follow all the above instructions, till you complete all the tutorials in the series.

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Vidya Jyothi Institute of Technology

Department of Information Technology

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5	14911A1209	LAKSHMAN SAHITH BIJJALA
6	14911A1210	BUDDOL TEJA SREE
7	14911A1211	BULUSU KAMESWARI KEERTHI
8	14911A1213	NAMALA TEJA BABU
9	14911A1217	NISCHAL REDDY GOLE
10	14911A1219	PRADEEP REDDY GOPI
11	14911A1221	PRANEETH REDDY KOTHA
12	14911A1222	HARI KRISHNAN NAIR
13	14911A1223	PRANAVI MANDLAM
14	14911A1224	ANAND RAKESH MADDERLA
15	14911A1226	MANOJ KARTHIK MORAMPUDI
16	14911A1227	VIJAY MOTHARAPU
17	14911A1228	RAJITHA MUKKALA
18	14911A1229	SATISH REDDY MUSALIGARI
19	14911A1230	SHIVA SAI RAM MYSANI
20	14911A1231	LAKSHMI SPANDANA NARRAVULA
21	14911A1232	SURAJ KUMAR NATHAMGARI
22	14911A1233	ABHISHEK POLEPALLY
23	14911A1234	SREEJA PAKEERU
24	14911A1235	REETHIKA PALLAPATI
25	14911A1236	VINOD KUMAR PALLAPU
26	14911A1237	SRI HAINDAVI PARIGI
27	14911A1238	YESHWANT PARVATHANENI
28	14911A1240	BHARATH PUSA
29	14911A1241	SANTHOSH RAVIKANTI
30	14911A1242	N.V.MAHENDRA SIRIPALLI
31	14911A1243	BHARGAVI SIRISALA
32	14911A1246	SAI KISHORE TANGELLA
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Spoken Tutorial

https://spoken-tutorial.org

Scan the QR code to
visit Spoken Tutorial website

Ruby

National Mission on Education through
Information and Communication Technology
(NMEICT)

www.sakshat.ac.in

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Information and Communication Technology,
Ministry of Human Resource Development,
Government of India.

Target Group

- Computer Science Students
- Programmers
- Software Developers

Contact us

Email: contact@spoken-tutorial.org
Website: https://spoken-tutorial.org

Content available
in
22 Indian languages

Forum help
available
to all learners

IIT Bombay

Workshops

The Spoken Tutorial Project Team conducts
workshops on Ruby and other FLOSS using
spoken tutorials and gives certificates to those
who pass an online test.

For more details, please visit
https://spoken-tutorial.org

Forum

We have developed a beginner friendly Forum to
answer specific questions pertaining to any part
of a particular tutorial.
For more details, please visit
https://forums.spoken-tutorial.org.

Introduction

- **Ruby** is an object-oriented scripting language designed by Yukihiro Matsumoto.
- It is a free and open source language.
- Ruby syntax is much easier to read and write.

Ruby Installation

Ruby can be installed using the Ubuntu Software Centre.
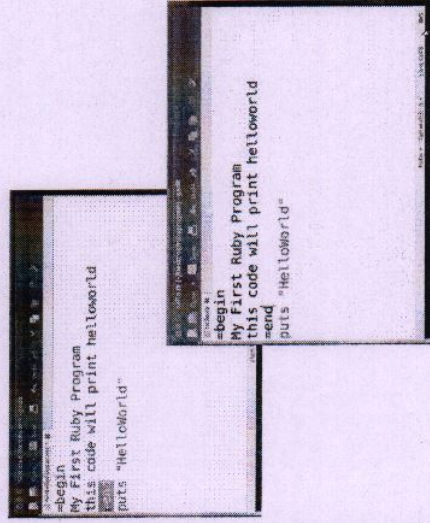
Other installation methods:
rvm (Ruby Version Manager)
https://rvm.io/rvm/install
rbenv
http://rubysource.com/
up-and-running-with-rbenv

Spoken Tutorials in Ruby Series

Basic Level Tutorials

- Hello Ruby
- Variables in Ruby
- Ruby Methods
- Arithmetic and Relational Operators
- Logical and other Operators
- Control Statements

Intermediate Level Tutorials

- for and each looping statements
- while and until looping statements
- Object Oriented concept in Ruby
- Object Oriented Programming Methods

Features

- Ruby works on Linux, Windows and Mac operating system
- Ruby is very easy to learn
- It is highly portable
- Ruby is a server-side scripting language similar to Python and PERL
- It can be used for developing Internet and intranet applications
- Ruby can be embedded into Hypertext Markup Language (HTML)
- It can be used to write Common Gateway Interface (CGI) scripts
- Ruby can easily be connected to DB2, MySQL, Oracle, and Sybase
- It supports automatic memory management
- RubyGems provides a standard format for distributing Ruby programs and libraries

RUBY

Course Outcomes

At the end of the course the student should be able to:

1. Setup the Ruby development environment and Learn the fundamentals of the Ruby language
2. Learn about the built-in Ruby libraries and APIs and Learn the principals of object-oriented programming (OOP) in Ruby.
3. Scheme for creating and using libraries and packages and Learn how to use external libraries with Ruby Gems

1 Online / Offline content

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3. From this link download the FOSS categories in the language you wish to learn.

4. The Spoken Tutorial content will be downloaded as a zip file on your machine.

5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.

2. You will typically do one tutorial at a time.

3. You may listen to a spoken tutorial and reproduce all the commands shown in the video.

4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 Ruby

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Ruby".

2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.

3. Click on "Submit" button.

4. You will see a list of tutorials based on your selection.

5. Start with the first tutorial in the displayed list.

4 First tutorial: Hello Ruby

1. Locate the topic "Hello Ruby" and click on it.

2. To view the tutorial, click on the Play icon which is located in the player.

3. The Pre-requisite will be visible below the player (only for Online contents).

4. Outline, Assignments, Code Files and Slides are available below the player.

5. Adjust the size of the browser in such a way that you are able to practice in parallel.

6. At 2:28 mins, pause the video.

4.1 Open Terminal on Linux OS

(a) Here the video shows how to open the "Terminal" in Linux OS.

(b) The tutorials are explained on the Linux OS.

(c) It will be easy for the Linux users to follow as instructed in the tutorial.

4.2 Open Terminal on Windows OS

(a) Currently we are in the process of creating instructions to practise Ruby on Windows OS. It will be updated soon.

4.3 Instructions to practise

(a) At the prompt, type cd Desktop/ and press "Enter".

(b) Now type mkdir name-rollno-ruby and press "Enter".
(Eg. mkdir Vin-1-ruby)

(c) This will create a folder with your "name" and "rollno" on the Desktop.

(d) Type cd name-rollno-ruby and press "Enter".
(Eg. cd Vin-1-ruby)

(e) This will take you to that particular folder.

(f) Give a unique name to the files you save in your folder, so as to recognize it next time.
(Eg. "Practice-01-ruby")

(g) Remember to save all your work in your folder.

(h) This will ensure that your files don't get over-written by someone else.

(i) Save your work from time to time, instead of saving it at the end of the task.

4.4 Common instructions for Assignments

(a) Attempt the `Assignments` as instructed in the tutorial.
(b) Save your work in your folder.

4.5 Common instructions to use Code files

(a) Click on the link `"Code files"` located below the player and save it in your folder.

(b) Extract the downloaded zip file.
(c) You will see all the code/source files used in the particular tutorial.
(d) Use these files as per the instructions given in the particular tutorial.

7. Play-pause-practise the whole tutorial.

8. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

9. Follow all the above instructions, till you complete all the tutorials in the series.

Vidya Jyothi Institute of Technology

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A comprehensive set of topics pertaining to **Java** were covered in the training.

April 9th 2016

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

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April 9th 2016

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April 9th 2016

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April 9th 2016

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A comprehensive set of topics pertaining to **Java** were covered in the training.

April 9th 2016

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A comprehensive set of topics pertaining to **Java** were covered in the training.

April 9th 2016

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IIT Bombay

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IIT Bombay

Certificate of Participation

This is to certify that **HARI KRISHNAN NAIR** participated in the **Java** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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April 9th 2016

Prof. Kannan M Moudgalya
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This is to certify that **SUCHARITHA AVULA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **LAKSHMAN SAHITH BIJJALA** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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IIT Bombay

Certificate of Participation

Spoken Tutorial Project at IIT Bombay

This is to certify that **SAI MADHU YELLENI** participated in the **PHP and MySQL** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training.

April 9th 2016

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **AKSHAY KUMAR SUDAM** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **MANOJ ALWAKA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **HEMA ANUMULA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

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IIT Bombay

This is to certify that **SRI RAMA SASI TEJA BHATTIPROLU** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **VIJAYA SIMHA REDDY BHEEMI REDDY** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

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Certificate of Participation

This is to certify that **VINAY KUMAR YADAV BODDHAM** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

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Project at
IIT Bombay

Certificate of Participation

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Project at
IIT Bombay

This is to certify that **TEJASWINI CHAVVA** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **CHANDRASHEKAR ELKOOCHI** participated in the **Ruby** training

organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with

course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

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This is to certify that **SHIVARAMGOUD GANAPURAM** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **ABHISHEK GATTINENI** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **ANUSHA IRNENI** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **HARSHA JAYADEEP KOSURI** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **SAI CHARAN KALIKOTA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **KAMAL KARTHIK KEMA** participated in the **Ruby** training organized

at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **SHILPA RANI KARADLA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

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This is to certify that **MOHANA VAMSHI KORIVI** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **VIKRAM KUDELLY** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **DINESH KUNTA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **SINDHU L** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **MEGHANA MULLE** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **AISHWARYA MUPPALA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **PAVAN KUMAR NALLAPALLY** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **PRATHYUSHA PUNJALA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **STHIMITHA PATLOLLA** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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Certificate of Participation

This is to certify that **RAHUL PENDYALA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **SAICHARAN YELWAKA** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **SIVAPRIYA SANGARAJU** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **SIDDHARTH SHINDE** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **VASUDEVA SREERAMADASU** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **HARIPRASAD THADISHETTY** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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This is to certify that **AAKARSH UOORLA** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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Certificate of Participation

This is to certify that **DIVYASHREE MERUGUMALLA** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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Certificate of Participation

This is to certify that **PRAFUL PATHIPAKA** participated in the **Ruby** training organized at

Vidya Jyothi Institute Of Technology in **January 2016** semester, with course material

provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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IIT Bombay

Certificate of Participation

This is to certify that **MANISHA BASUTHKAR** participated in the **Ruby** training organized at **Vidya Jyothi Institute Of Technology** in **January 2016** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Ruby** were covered in the training.

April 12th 2016

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Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Ref: VJIT/IT/VAC/2015-16 /2

Date: 30.12.2015

CIRCULAR

The Department of Information Technology will be organizing Value Added Courses on **Python Programming** for the benefit of the II & III Year students. This course will be scheduled from **04.01.2016 – 02.04.2016**. The interested students should register for the courses by **02.01.2016**.

The instructors for the course are as follows

S. No.	Name of the Instructor	Designation
1	Mrs. G Indira Priyadarshini	Assoc. Prof
2	Mr. B Eswar Babu	Assoc. Prof

All the registered students must attend the classes and solve all the assignments without fail.

PRINCIPAL
Vidya Jyothi Institute of Technology
Himayatnagar (Vill), C. B. Post
Hyderabad-75.

HoD

Copy to:

1. The Principal Office
2. Notice Board
3. II & III B.Tech Students

Vidya Jyothi Institute of Technology

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Python Programming

Course Outcomes:

After completing this course the student must able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

Introduction - History, Features, Setting up path, Working with Python, Basic Syntax, Variable and Data Types, Operators

Input-Output - Printing on screen, Reading data from keyboard, Opening and closing file, Reading and writing files, Functions

Conditional Statements - If, If- else, Nested if-else

Looping - For, While, Nested loops

Control Statements - Break, Continue, Pass

String Manipulation - Accessing Strings, Basic Operations, String slices, Function and Methods

Lists - Introduction, Accessing list, Operations, Working with lists, Function and Methods

Tuple - Introduction, Accessing tuples, Operations, Working, Functions and Methods

Dictionaries - Introduction, Accessing values in dictionaries, working with dictionaries, Properties, Functions

Functions - Defining a function, calling a function, Types of functions, Function Arguments, Anonymous functions, Global and local variables

Modules - Importing module, Math module, Random module, Packages, Composition

Exception Handling - Exception, Exception Handling, Except clause, Try ? Finally clause, User Defined Exceptions

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Information Technology

Date: 04.01.2016

List of Registered Students – Python Programming

S.No.	Roll No.	Name
1	13911A1201	Akshay Kumar Sudam
2	13911A1202	Alam Sunil Kumar Naidu
3	13911A1203	Alwaka Manoj Venkata Sai
4	13911A1204	Anumula Hema
5	13911A1205	B Sri Rama Sasi Teja
6	13911A1206	Vijaya Simha Bheemi Reddy
7	13911A1207	Vinaykumar Yadav B
8	13911A1208	Chavva Tejaswini
9	13911A1210	Chandra Shekar E
10	13911A1211	G Shiavram Goud
11	13911A1212	G. Abhishek
12	13911A1213	I.Anusha
13	13911A1214	K.Harsha Jaya Deep
14	13911A1215	Sai Charan Kalikota
15	13911A1216	K.Kamal Karthik
16	13911A1217	K.Shilpa Rani
17	13911A1218	K. Mohan Vamshi
18	13911A1219	K.Vikram
19	13911A1220	K.Sairam
20	13911A1221	K.Dinesh
21	13911A1222	L.Sindhu
22	13911A1223	Mulle.Meghana
23	13911A1224	M .Aishwarya
24	13911A1225	N.Pavan Kumar Reddy
25	13911A1226	P.Prathyusha
26	13911A1227	P.Sthimitha
27	13911A1228	P.Rahul
28	13911A1229	Pinnoj Susheel
29	13911A1230	Pooja Balishetty
30	13911A1231	Rajeev Sharma
31	13911A1232	Sai Charan Ramulu Yelwaka
32	13911A1233	S Supriya
33	13911A1234	Siddharth Shinde
34	13911A1235	S Vasudeva Chary
35	13911A1236	T.Hariprasad
36	13911A1237	U Aakarsh
37	14911A1201	A. Jithendhar Reddy
38	14911A1202	Alamdar Dashtee
39	14911A1203	Annapureddy Akhil Kumar Reddy
40	14911A1204	Arun Abhishek Chowhan

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41	14911A1206	B. Nikhil
42	14911A1207	B. Sruthi
43	14911A1208	Bandla Ramyasri
44	14911A1209	Bijjala Lakshman Sahith
45	14911A1210	Buddolu Teja Sree
46	14911A1211	Bulusu Kameswari Keerthi
47	14911A1212	D. Nikhil Reddy
48	14911A1213	Namala Tejababu
49	14911A1214	Durgam Pruthvi Goud
50	14911A1215	E Swathi
51	14911A1216	Ganji Navya Darshini
52	14911A1217	Gole Nischal Reddy
53	14911A1218	Gopireddy Pradeep
54	14911A1219	Gudepu Ranadeep
55	14911A1220	K. Pooja Nikitha
56	14911A1221	K. Praneeth Reddy
57	14911A1222	M. Hari Krishnan Nair
58	14911A1223	M. Pranavi
59	14911A1224	Madderla Anand Rakesh
60	14911A1226	Morampudi Manoj Karthik
61	14911A1227	Motharapu Vijay
62	14911A1228	Mukkala Rajitha
63	14911A1229	Musaligari Sathish Reddy
64	14911A1230	Mysani Shiva Sai Ram
65	14911A1231	N. Lakshmi Spandana
66	14911A1232	Nathamgari Suraj Kumar
67	14911A1233	P. Abhishek
68	14911A1234	Pakeeru Sreeja
69	14911A1235	Pallapati Reethika
70	14911A1236	Pallapu Vinod Kumar
71	14911A1237	Parigi Sri Haindavi
72	14911A1238	Parvathaneni Yeshwant
73	14911A1239	Pokala Divya
74	14911A1240	Pusa Bharat Kumar
75	14911A1241	Ravikanti Santhosh
76	14911A1242	Siripalli Naga Venkata Mahendra
77	14911A1243	Sirisala Bhargavi
78	14911A1244	Sohini Shiva Prasad
79	14911A1245	T Anusha
80	14911A1246	T. Sai Krishna Kishore
81	14911A1247	Thanda Bindu
82	14911A1248	Vejalla Sumanth
83	14911A1249	Vemula Manogna
84	14911A1250	Vishwanath Praneetha

HOD