

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

I Year-I Sem

PROGRAMMING FOR PROBLEM SOLVING LAB

Week 1

Ubuntu and Linux Commands.

Week 2

Designing of flowcharts and algorithms using raptor tool

1. Areas of Polygons.
2. Calculation of Simple and Compound Interest.
3. Swapping of Two numbers with and without temporary variable.
4. Checking whether a number is even or odd.
5. Sum of first 'n' natural numbers.
6. Checking a number whether it is divisible by any given number.
7. Evaluation of mathematical expressions.
8. Programs using scanf() and printf() statements.

Week 3

1. Program to find the roots of quadratic equation.
2. Program to implement Storage classes.
3. Programs on operators (9 programs).
4. Programs on Command line arguments.

Week 4

1. Programs on Conditional Statements (9)
2. Programs on Looping Statements. (9)

Week 5

1. Programs on One Dimensional Arrays. (4 programs), Linear search & Bubble sort
2. Programs on Two Dimensional Arrays. (2 programs)

Week 6

1. Programs on Strings.
2. Programs on Strings with and without using string built-in Functions.

Week 7

1. Programs on Accessing Structures and Nested Structures.
2. Programs on Pointers, pointer arithmetic, pointer expression
3. Programs on Pointer to structure, Call by Reference, Pointer to Pointer.
4. Programs on Unions, typedef and enum.

Week 8

1. Programs on Functions. (4 programs)
2. Programs using Recursion.

Week 9

1. Programs on Dynamic Memory Allocation Functions (3 programs).

Week 10

1. Programs on File Input and Output functions (3 programs).
2. Programs on File Operations. (5 programs)

Week 11

Revision