Vidya Jyothi Institute of Technology

Department of Computer Science and Engineering

IV year I sem(Professional Elective)

Big Data Analytics Lab

LIST OF EXPERIMENTS

Week 1, 2:
1. Implement the following Data structures in Java
    a) Linked Lists   b) Stacks   c) Queues   d) Set   e) Map

Week 3
2. Perform setting up and Installing Hadoop in Pseudo distributed mode.

Week 4:
3. Implement the following file management tasks in Hadoop:
    i. Adding files and directories
    ii. Retrieving files
    iii. Deleting files
Hint: A typical Hadoop workflow creates data files (such as log files) elsewhere and copies them into HDFS using one of the above command line utilities.

Week 5:
4. Run a basic Word Count Map Reduce program to understand Map-Reduce Paradigm.

Week 6:
5. Write a Map Reduce program that mines weather data.
Weather sensors collecting data every hour at many locations across the globe gather a large volume of log data, which is a good candidate for analysis with Map-Reduce, since it is semi structured and record-oriented.

Week 7:
6. Implement Matrix Multiplication with Hadoop Map Reduce

Week 8, 9:
7. Install and Run Pig then write Pig Latin scripts to sort, group, join, project, and filter your Data.

Week 10, 11:
8. i) Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, Functions and indexes
ii) Performance techniques in Hive partitions, bucketing.

Week 12:
9. Migration from Mysql database to hive using Sqoop.