**Experiment List**

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

**Week 3, 4:**
2. (i) Perform setting up and Installing Hadoop in its three operating modes:
   - Standalone
   - Pseudo distributed
   - Fully distributed
   (ii) Use web based tools to monitor your Hadoop setup.

**Week 5:**
3. Implement the following file management tasks in Hadoop:
   - Adding files and directories
   - Retrieving files
   - 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 6:**
4. Run a basic Word Count Map Reduce program to understand Map Reduce Paradigm.

**Week 7:**
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 8:**
6. Implement Matrix Multiplication with Hadoop Map Reduce

**Week 9, 10:**
7. Install and Run Pig then write Pig Latin scripts to sort, group, join, project, and filter your data.

**Week 11, 12:**
8. Install and Run Hive then use Hive to create, alter, and drop
References: