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Hadoop & BigData Lab

Week 1,2:

Implement the following Data structures in Java

    a)Linked Lists b) Stacks c) Queues d) Set e) Map

Week 3, 4:

    (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:

    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:

    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 MapReduce, since it is semi structured and record-oriented.

Week 8:

    6. Implement Matrix Multiplication with Hadoop Map Reduce

Week 9,10:

    Install and Run Pig then write Pig Latin scripts to sort, group, join, project, and filter your data.

Week 11,12:

    Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, functions, and indexes