+ Title!-

Locate dataset for working on weather data which reads the text input files & finds average for temperature, thew point & wind speed.

= objectives:-

students should be able to perform the mapReduce operation in Hadoop.

= prerequisites!

- 1. Hadoop installat?
- 2. Basics of Hadoop: HDFS, map reduce.
- 3. Java programming.

=Theory !-

Mapreduce :-

program model for distribute computing based on java.

- Algorithm! -

- on sending the computer to where the data model resides.
- · Mapreduce program executes in three stages namely map stage, shuffle stage.
- · map-stage: mapper's job is to process the

- · input file is passed to mapper function. line by
- Reduce stage: This stage of combination of shuffle stage & reduce stage. The reducers job is to process data that comes from mapper.
- · Hadoop sends map & Reduce tasks to the appropriate servers in cluster.
- · After completion of the given tasks, the cluster collects of reduces data to form an appropriate results.

= Inputs & outputs !.

- · MapReduce framework operates on ¿key, pair)

 pair., the framework views the input

 to the job as a set of (key, value) pairs.
- · key & value classes should be in serialized manner by framework & hence, need to implement the writable interface.

= conclusion!-

In this manner we have successfully located dataset & worked on weather dataset which reads text input files & finds average for temperature, dew point 4 wind speed.