

## Experiment - 10

Aim: Install Eclipse IDE on single Node cluster for executing Map Reduce Job & understand the role of dependent libraries for processing job.

Steps :

- 1) In Download Eclipse from [eclipse.org](http://eclipse.org)
- 2) Install Eclipse
- 3) Add a new Java Project
- 4) Right Click on project and click on Java Build Path  
the libraries
- 5) All libraries are mentioned here.

## Experiment-11

Aim: Perform MapReduce word count job for given input file by configuring number of reducer 2.

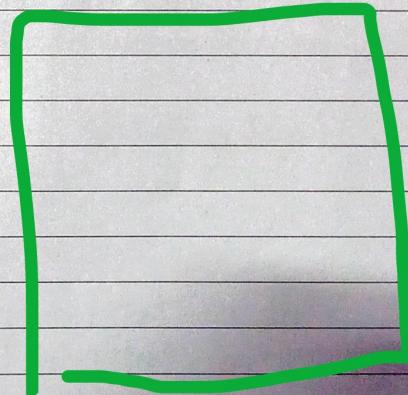
- Create a project,
- Now create a jar file :
- Click on Project,
- Click on Export,
- Select Export destination as Jar File,
- Name the jar file (WordCount.jar),
- Click Next,
- Click on finish.
- Upload WordCount file to hdfs folder at home directory.

P. T. C  
~~✓~~

Code

Code

- Copying wordcount jar file into local from hdfs and perform word count.
- Output, for Word Count.



## Experiment - 12

Aim : Perform Map Reducer on two different sets of data in different files and combine these files.

- The input data set is a txt file , DeptName.txt & DeptStrength.txt
  - Have hadoop installed & user name to 'hduser'
  - su -hduser
- Steps :
- 1) Copy & zip file to location of your choice (MapReducerJoin).
  - 2) Uncompress it  
- sudo tar -xvf MapReducerJoin.tar.gz
  - 3) Go to directory MapReducerJoin  
- cd MapReducerJoin
  - 4) Start Hadoop  
- \$HADOOP\_HOME /sbin /start-dfs.sh  
\$HADOOP\_HOME /sbin /start-yarn.sh

P.T.O

5) Copy Input file to HDFS :

- \$HADOOP\_HOME/bin/hdfs dfs -copyFromLocal DeptStrength.txt DeptName.txt /

6) Run the program using :

- \$HADOOP\_HOME/bin/hadoop jar MapReduceJoin.jar MAPReduceJoin | JoinDriver |DeptStrength.txt |DeptName.txt |output -mapreducejoin

7) After execution , output file 'part-00000' will stored in output\_mapreducejoin on HDFS.

8) Results :

- \$HADOOP\_HOME/bin/hdfs dfs -cat /output\_mapreducejoin/part-00000.

for Web view :

9) Open Local host , select 'Browse the filesystem' & navigate to output\_mapreducejoin .

10) Open part - r - 00000

11) Results are shown.

