

- ❖ Creating project
 - Open new "Java Project" in Eclipse
 - Choose "execution environment JRE" as JavaSE-1.7 while creating the project
- ❖ Add Reference Library as follows
 - Right click on the newly created project, choose "Build Path" --> "Configure Build Path" --> Add External JARs --> Then select all the library JAR (present in hadoop_jars folder)
- ❖ Placing the code inside the project
 - Copy map-reduce code - 3 files (present inside mr-avg folder)
 - Paste it inside "src" folder of the project.
 - If you paste it, it will automatically put it inside "default package".
- ❖ Exporting the project as jar
 - Right click on the project --> Export --> JAR file --> Browse the location where you want to export --> Next --> Main Class : select the class which has the main function --> Finish
- ❖ Connect to local server using the your credentials – in WinSCP as well as Putty
 - Server Name
 - User Name
 - Password
- ❖ Copying the JAR to the local server
 - Copy paste the JAR (that you created) to the server using WinSCP
- ❖ Copying the source data to HDFS
 - copy the source data to local server using WinSCP
 - copy the source data from local server to HDFS using the command “Hadoop fs –copyFromLocal <filename> <HDFS storage location>” – using putty
- ❖ Execute the jar file – using putty
 - hadoop jar <name of jar file in local server> <location of source file in HDFS> <location of output to be created in HDFS>
 - Example - hadoop jar hadoop_DEL.jar Hadoop1Dir/mr-avg.csv Hadoop2Dir/output
- ❖ Verifying the output – using putty
 - The output file will be with the name “part-r-00000” in the folder that you had specified