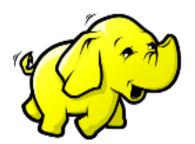


Wisdom Sprouts

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BIG DATA HADOOP

Lab Manual



Executing MapReduce Word Count Program

Step 1: Create an input folder in HDFS for your data which needs to be processed

hadoop fs -mkdir /user/wisdom/wordcountinput

Expected Output

Nothing

Step 2: Put wordcount.txt file from the Linux file system into the newly created directory

hadoop fs -put /home/wisdom/Documents/wordcount.txt wordcountinput

Expected Output

Nothing

Step 3: Verify the contents of the newly created directory in Hadoop Hdfs

hadoop fs -ls wordcountinput

Expected Output

Found 1 items

-rw-r--r--1 training supergroup 293 2014-12-03 15:57 wordcountinput/wordcount.txt

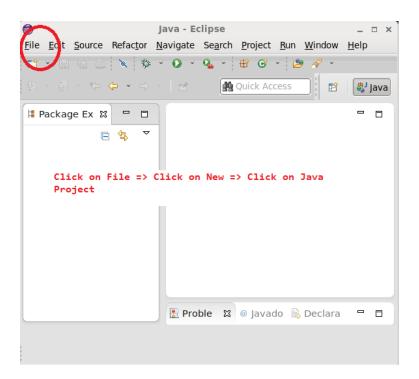
Step 4: Copy the program's folder into the Java Workspace

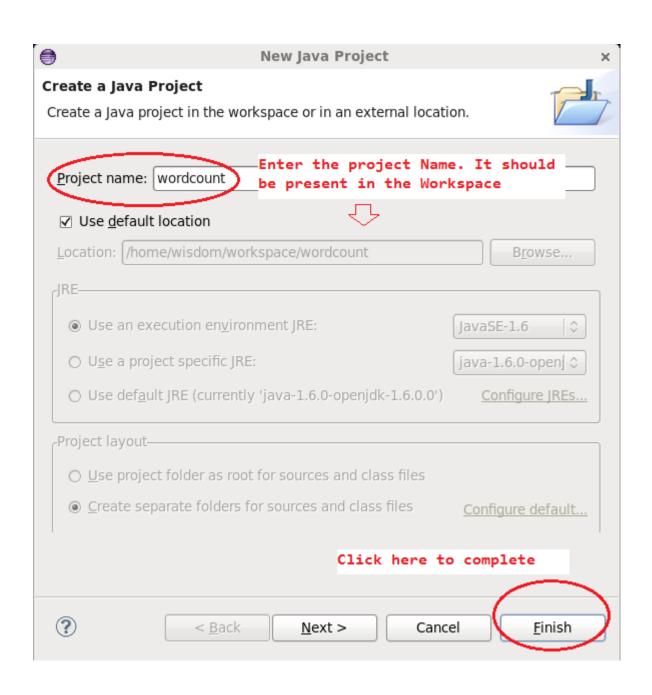
cp -r /home/wisdom/programs/wordcount /home/wisdom/workspace

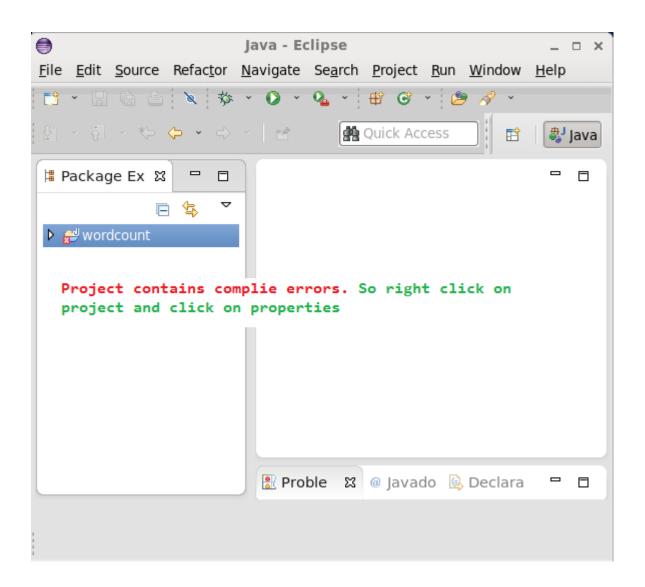
Expected Output

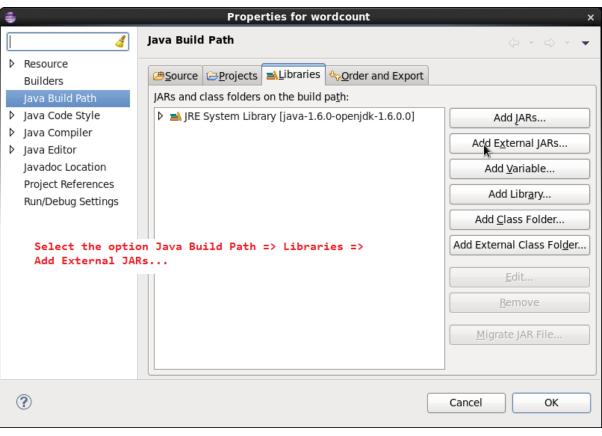
Nothing

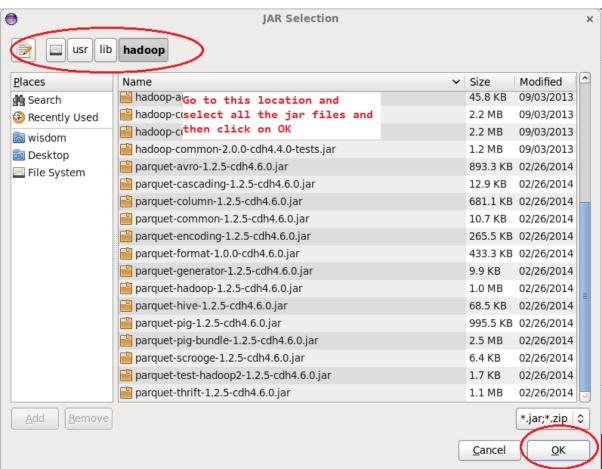
Step 5: Follow the screenshots for creating a project in Java Eclipse and then exporting it as a Jar file

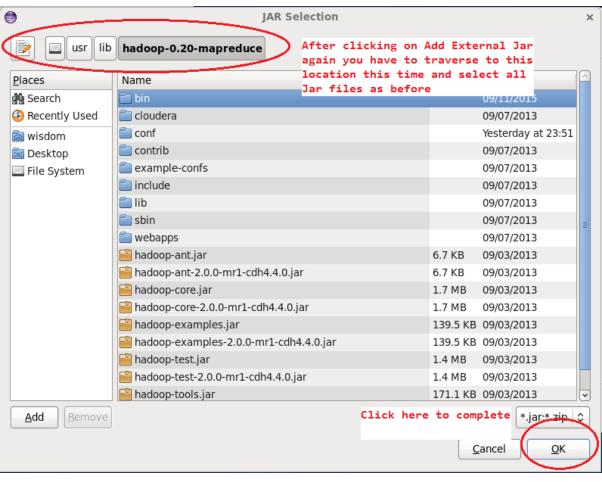


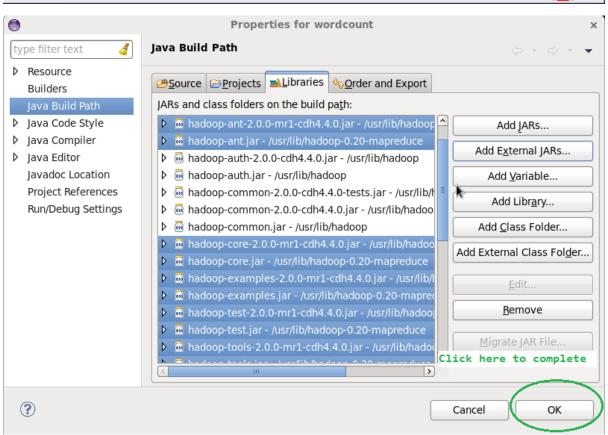


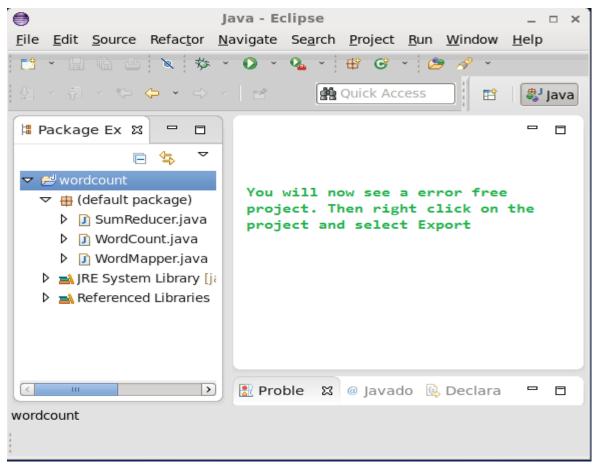


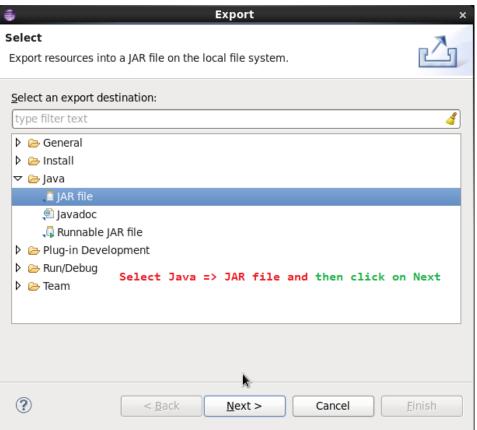


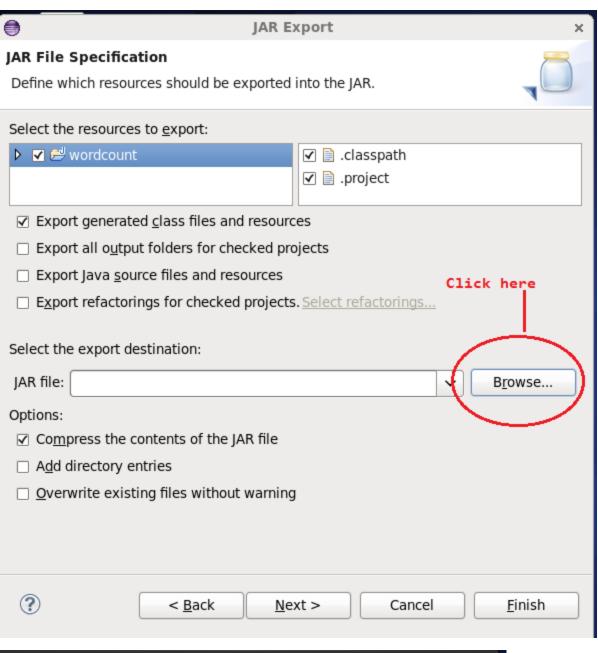


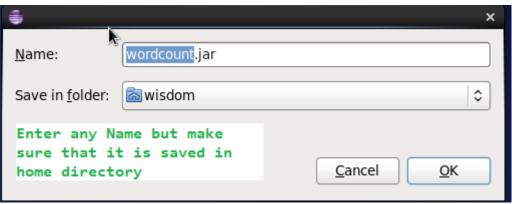


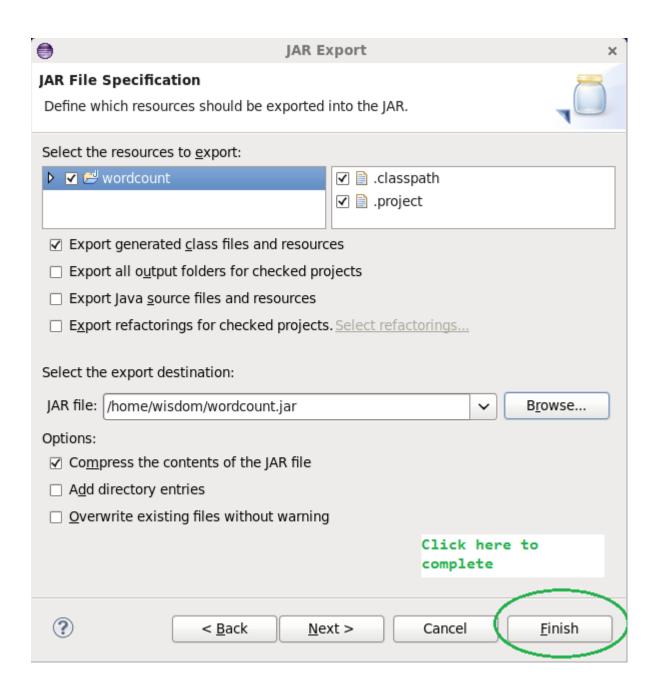












Step 6: Run the Word Count MapReduce Program

hadoop jar wordcount.jar WordCount wordcountinput wordcountoutput

Expected Output

14/12/03 16:05:16 WARN mapred.JobClient: Use GenericOptionsParser for parsing the arguments. Applications should implement Tool for the same.

14/12/03 16:05:16 INFO mapred.FileInputFormat: Total input paths to process : 1

14/12/03 16:05:17 INFO mapred.JobClient: Running job: job_201412031546_0003

Then lots of things will happen

14/12/03 16:05:44 INFO mapred.JobClient: Total committed heap

usage (bytes)=336994304

14/12/03 16:05:44 INFO mapred.JobClient:

org.apache.hadoop.mapreduce.lib.input.FileInputFormatCounter

14/12/03 16:05:44 INFO mapred.JobClient: BYTES_READ=293



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