

## How To Run a Map Reduce Program in Putty

Step by step procedure for running a map reduce program in putty.

To Run map reduce program in putty first we need to have a remote login.

Please check the below link for complete document to connect putty.

Link: [https://edureka.wistia.com/medias/Od42aa6b1r/download?media\\_file\\_id=68541755](https://edureka.wistia.com/medias/Od42aa6b1r/download?media_file_id=68541755)

### Process to create a JAR file :

Install Eclipse in your windows machine and import the word count program in to your eclipse.

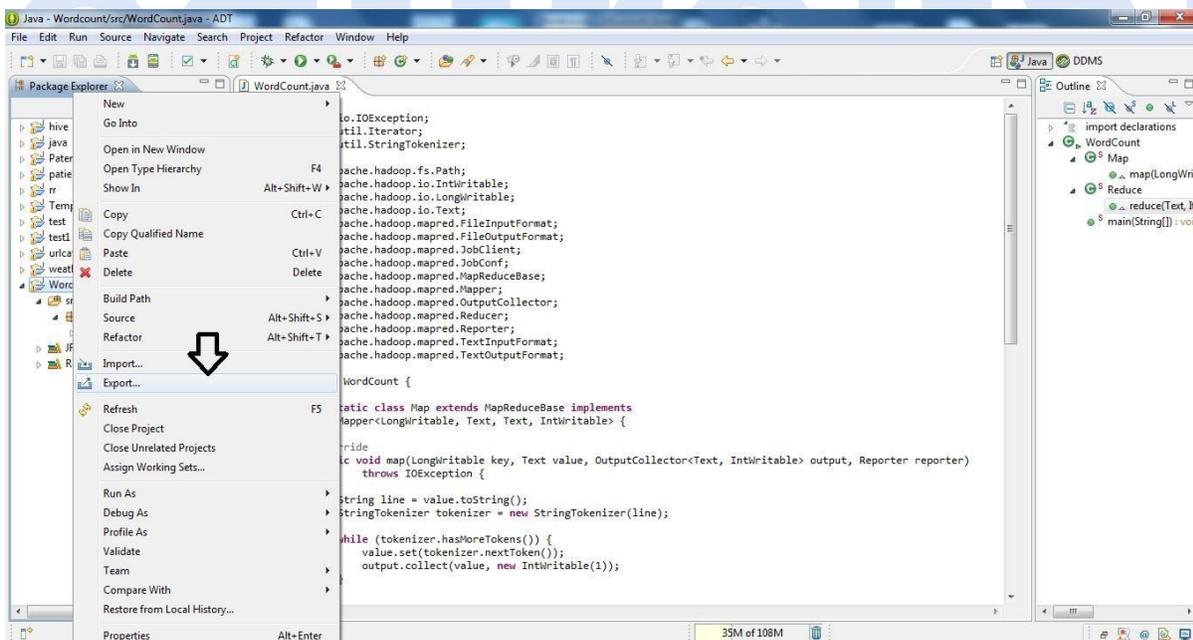
After importing the project add the required JAR files to your project.

### Create a JAR file :

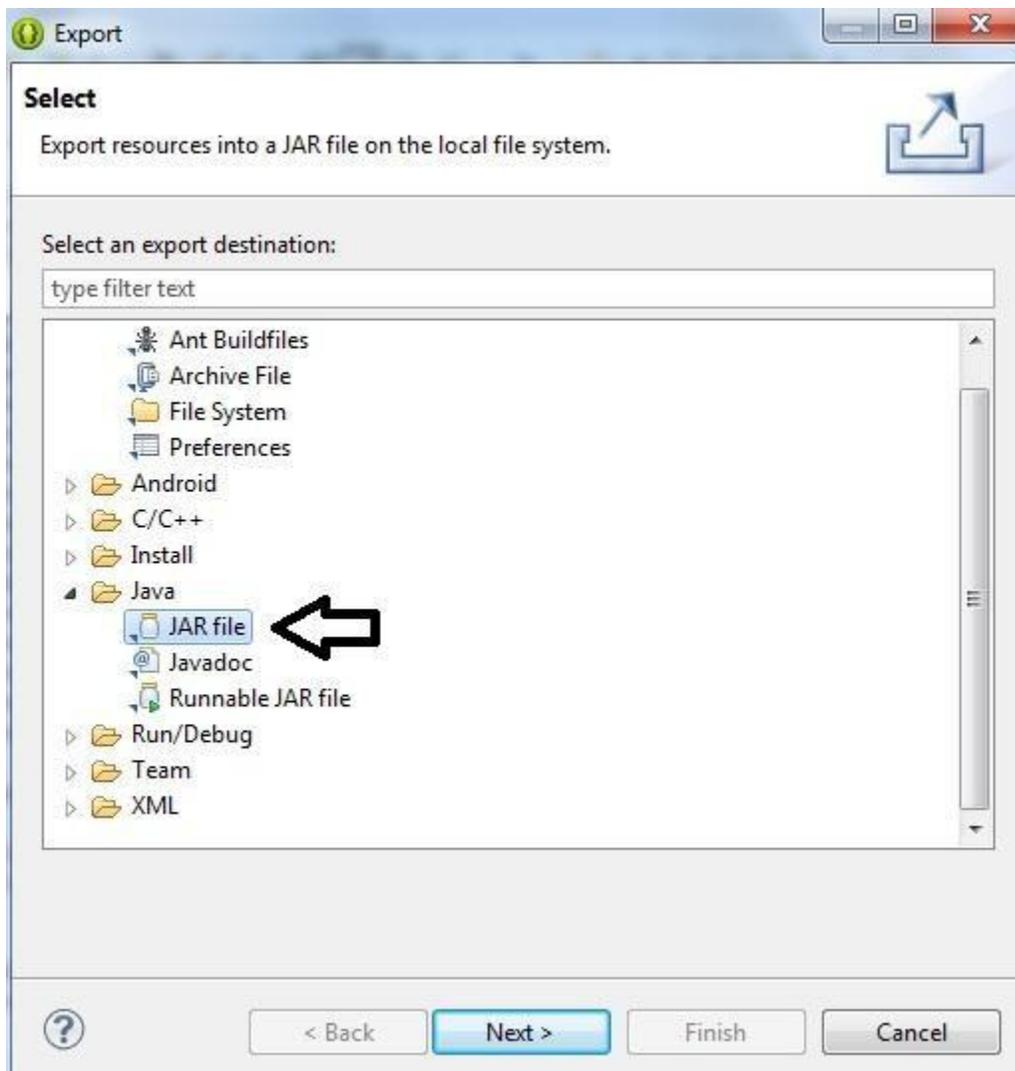
To create a JAR file follow the below steps.

After importing project successfully without any error follow below steps.

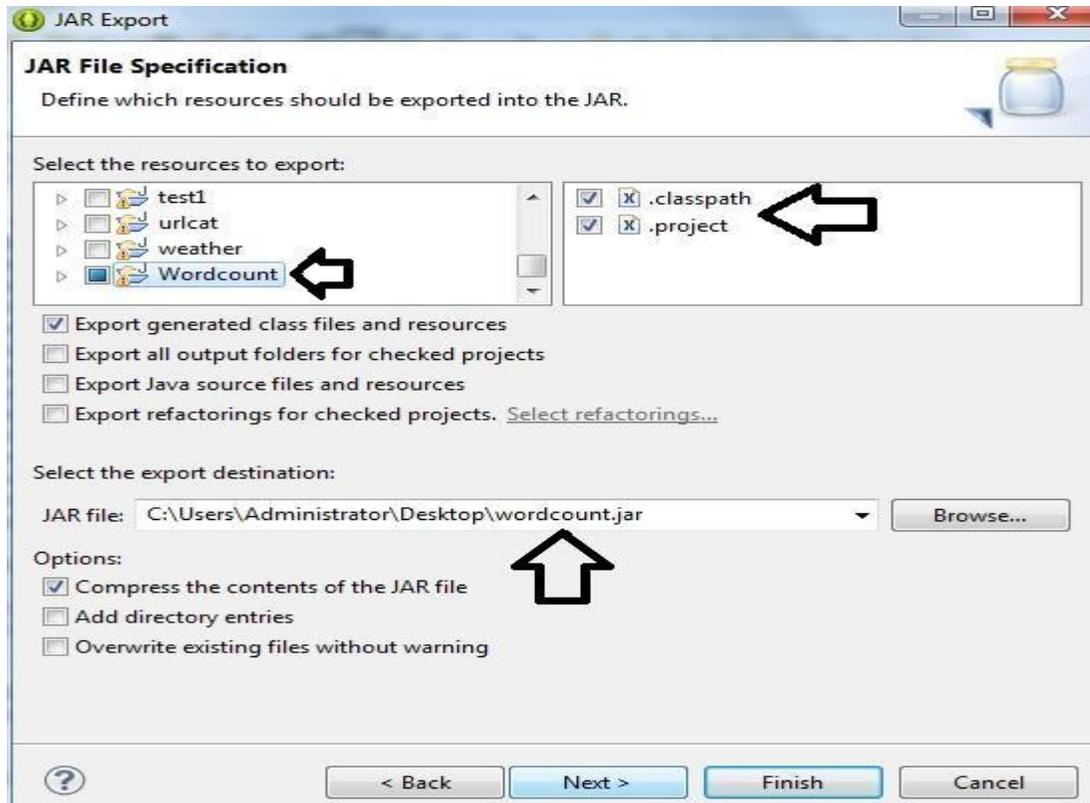
➔ Export our project and make a jar of it. Right click on the project and click on Export.



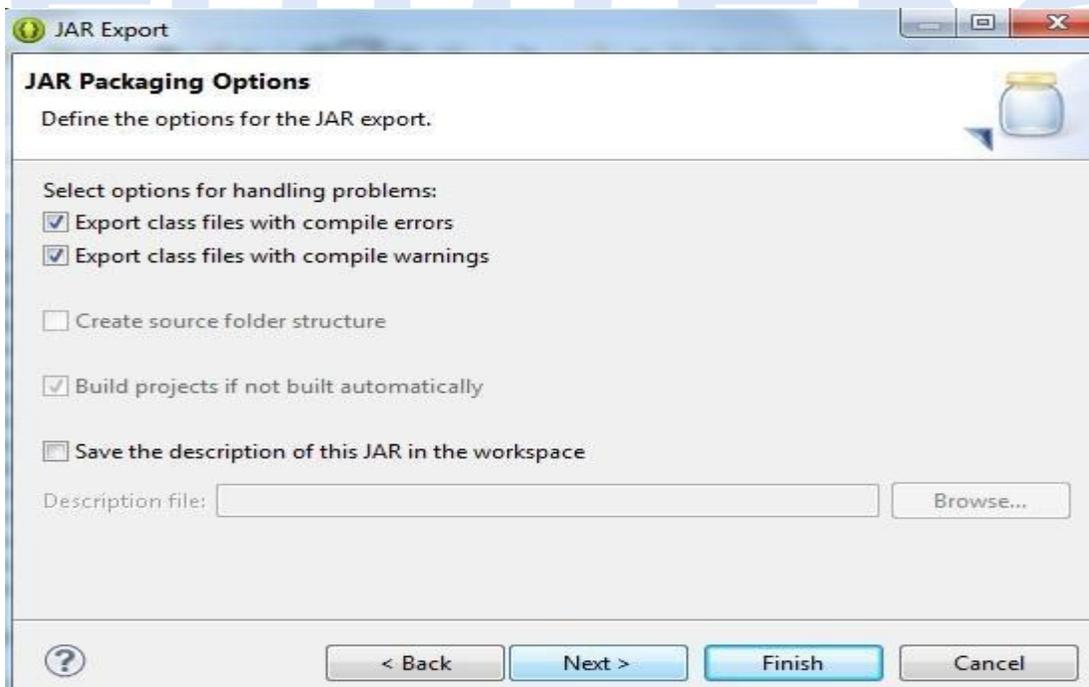
➔ Now under **Java**, select **JAR file** and click next.



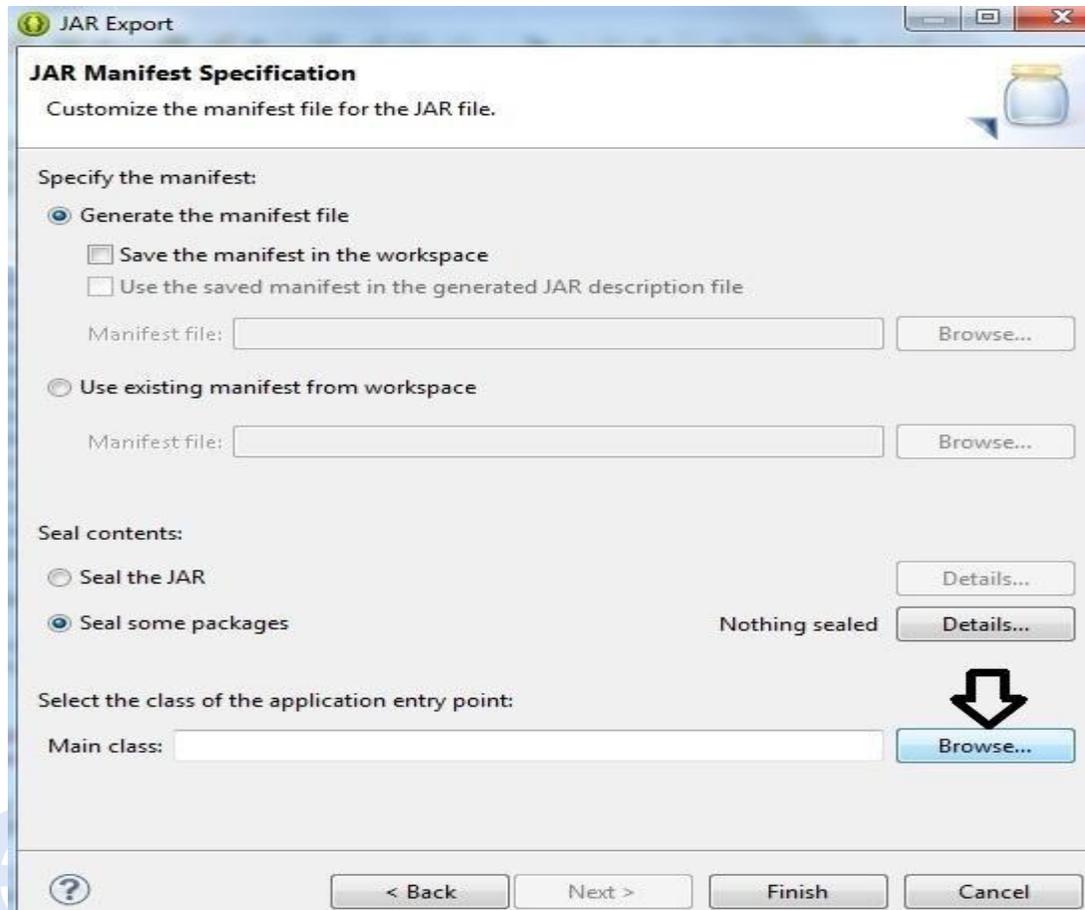
- ➔ Select your project as shown in the below snapshot. I have selected **Wordcount** project. Also, you need to give name for the jar you are creating and path where you want to save this jar. Now that click on next.



→ Click next.



→ Now we need to select our **main class**, so click on Browse.



→ Select the main class i.e. **WordCount** and click ok.



→ A jar will be created at the path which you had mentioned earlier and with the name you had given.

### Moving JAR file and input file to putty:

To move the JAR file to putty please follow the blow link:

<http://www.edureka.co/blog/transfer-files-windows-ec2-to-amazon-instance/>

After moving files to server then move your input file to HDFS location.

Use the below command to move input file to hdfs

**Command:**

**Hadoop dfs -put inputfilename /**

```
ubuntu@ip-10-254-102-228:~$ hadoop dfs -put a.txt /
```

### Running the jar:

First check all daemons are running or not:

**Command: jps**

(use **sudo jps** if not displaying any results)

```
ubuntu@ip-10-255-2-57:~$ jps
1524 Jps
700 NodeManager
16293 HQuorumPeer
16521 HRegionServer
32505 NameNode
406 SecondaryNameNode
32668 DataNode
552 ResourceManager
16351 HMaster
```

Then use the below command to run the JAR

**Command:**

**hadoop jar jarfilename.jar /input\_filename /output\_filename**

**Ex:**

**hadoop jar wc.jar /a.txt /a\_out1**

```
ubuntu@ip-10-254-102-228:~$ hadoop jar wc.jar /a.txt /a_out1
```

### To check output:

In order to check output in the console use the below command.

Ex:

`hadoop dfs -cat /output_filename`

```
ubuntu@ip-10-254-102-228:~$ hadoop dfs -cat /a_out1/part-00000
DEPRECATED: Use of this script to execute hdfs command is deprecated.
Instead use the hdfs command for it.

15/02/11 18:26:29 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Developers      7
Hadoop 7
```

If you want to check in browser follow the below steps.

Copy paste the instance in browser and then specify :50070 for name node file systems.

Ex: [ec2-54-185-110-122.us-west-2.compute.amazonaws.com:50070](http://ec2-54-185-110-122.us-west-2.compute.amazonaws.com:50070)

ec2-54-185-110-122.us-west-2.compute.amazonaws.com:50070/dfshealth.jsp

## NameNode 'ip-10-254-102-228:9000' (active)

Started:	Tue Feb 10 10:57:54 UTC 2015
Version:	2.2.0, 1529768
Compiled:	2013-10-07T06:28Z by hortonmu from branch-2.2.0
Cluster ID:	CID-df552144-92e4-41bc-8156-19bc3619477a
Block Pool ID:	BP-1620492729-10.254.102.228-1423488447015

[Browse the filesystem](#)  
[NameNode Logs](#)

### Cluster Summary

We can check the output file in browse the file system → output file

## Output in browser:



Happy Learning!!!!

Feel free to contact us.

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