

### Steps to create a jar:

**Step 1:**

Open Eclipse IDE and create a new project.

**Step2:**

Right click on the project and create a new package with package name mentioned in the Main class.

**Step 3:**

Create the classes WordCount.java, WordMapper.java and SumReducer.java having the same file name and class name.

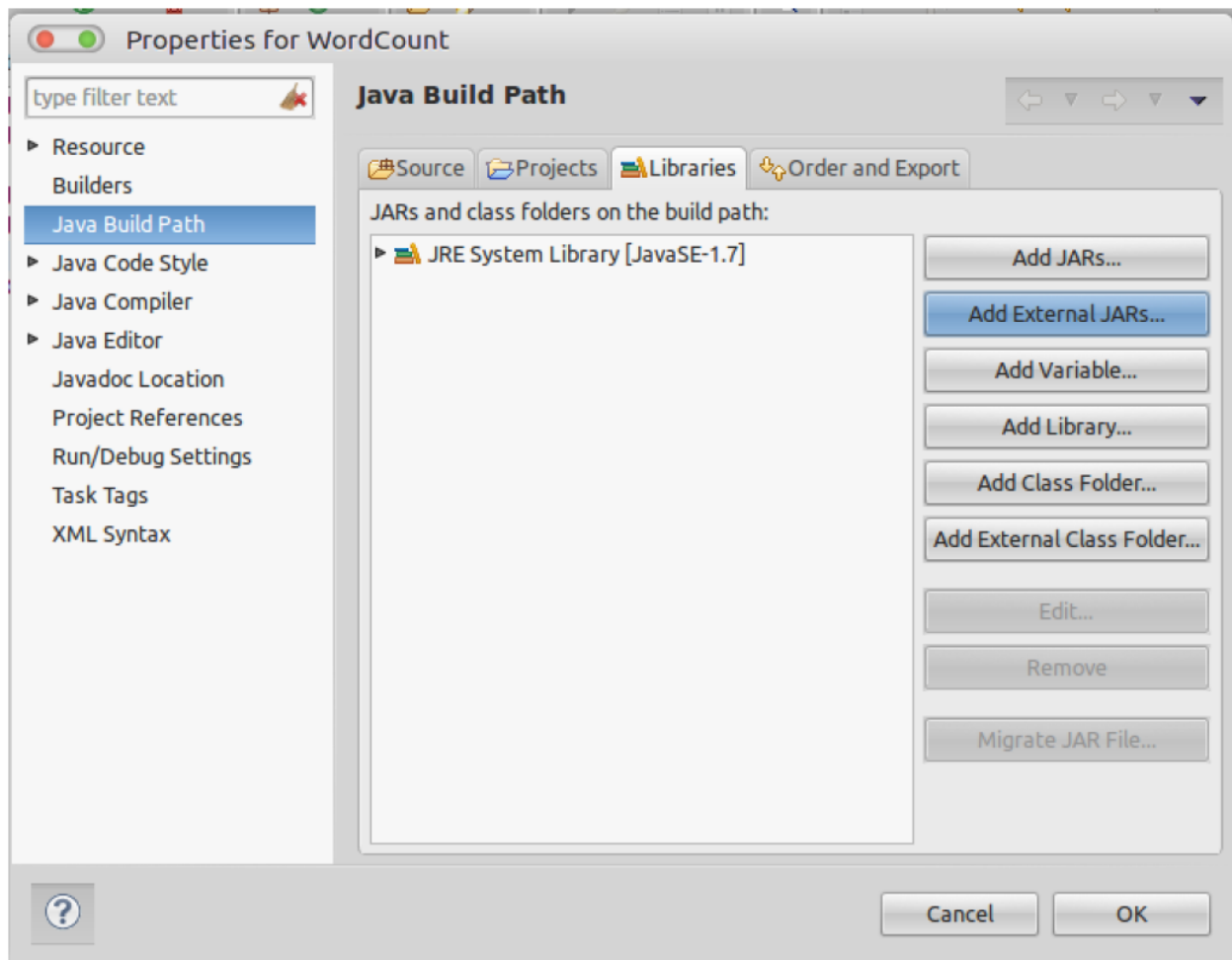
**Step 4:**

You need to remove dependencies by adding jar files in the hadoop source folder. Now Click on Project tab and go to Properties. Under Libraries tab, click Add External JARs and add the below jars from /usr/lib/hadoop/client/ path.

**Dependent Jars:**

hadoop-common-2.0.0-cdh4.2.0.jar

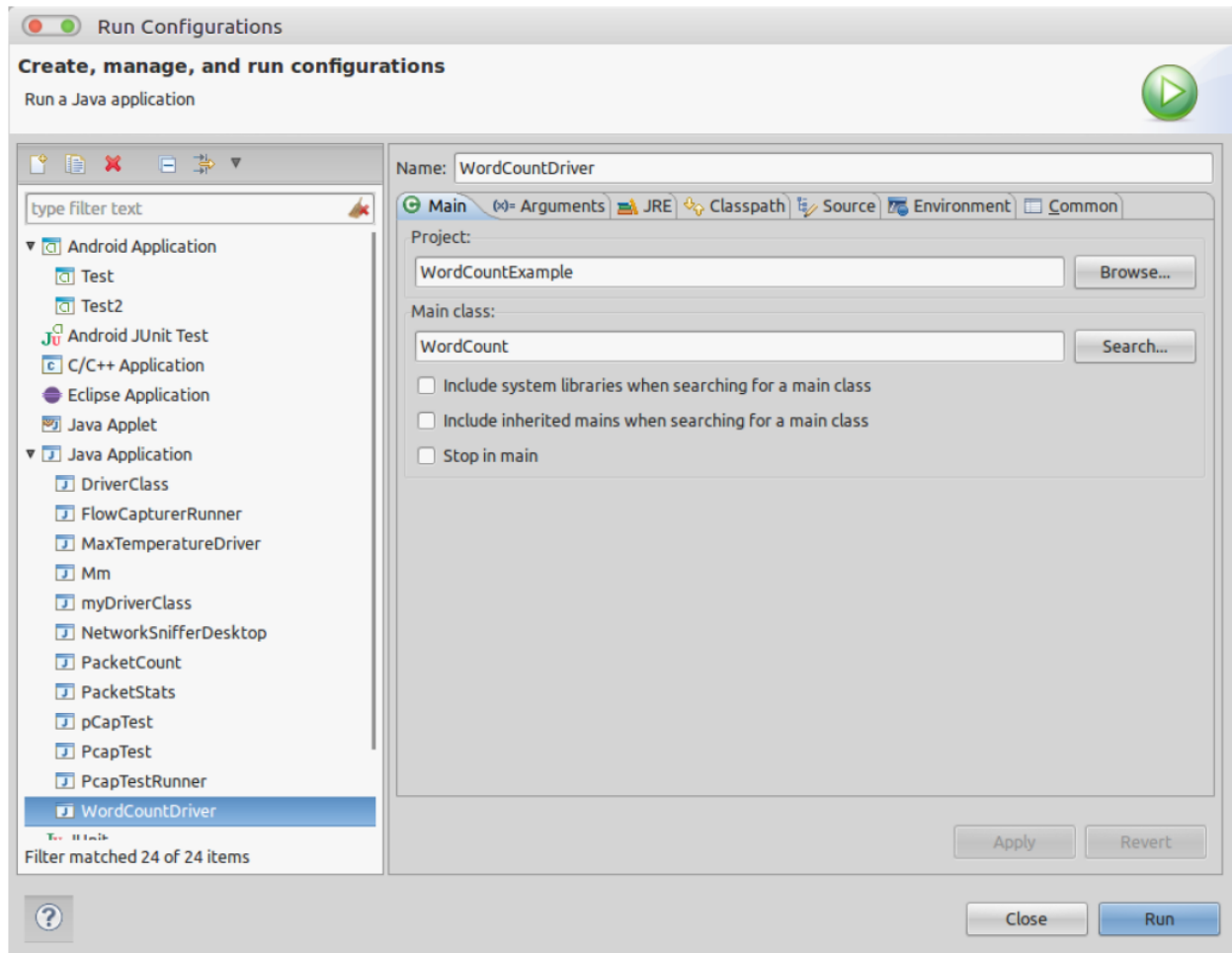
hadoop-mapreduce-client-core-2.0.0-cdh4.2.0.jar



### Step 5:

Now Click on the Run tab and click Run-Configurations. Click on New Configuration button on the left-top side and Apply after filling the following properties. ( see image )

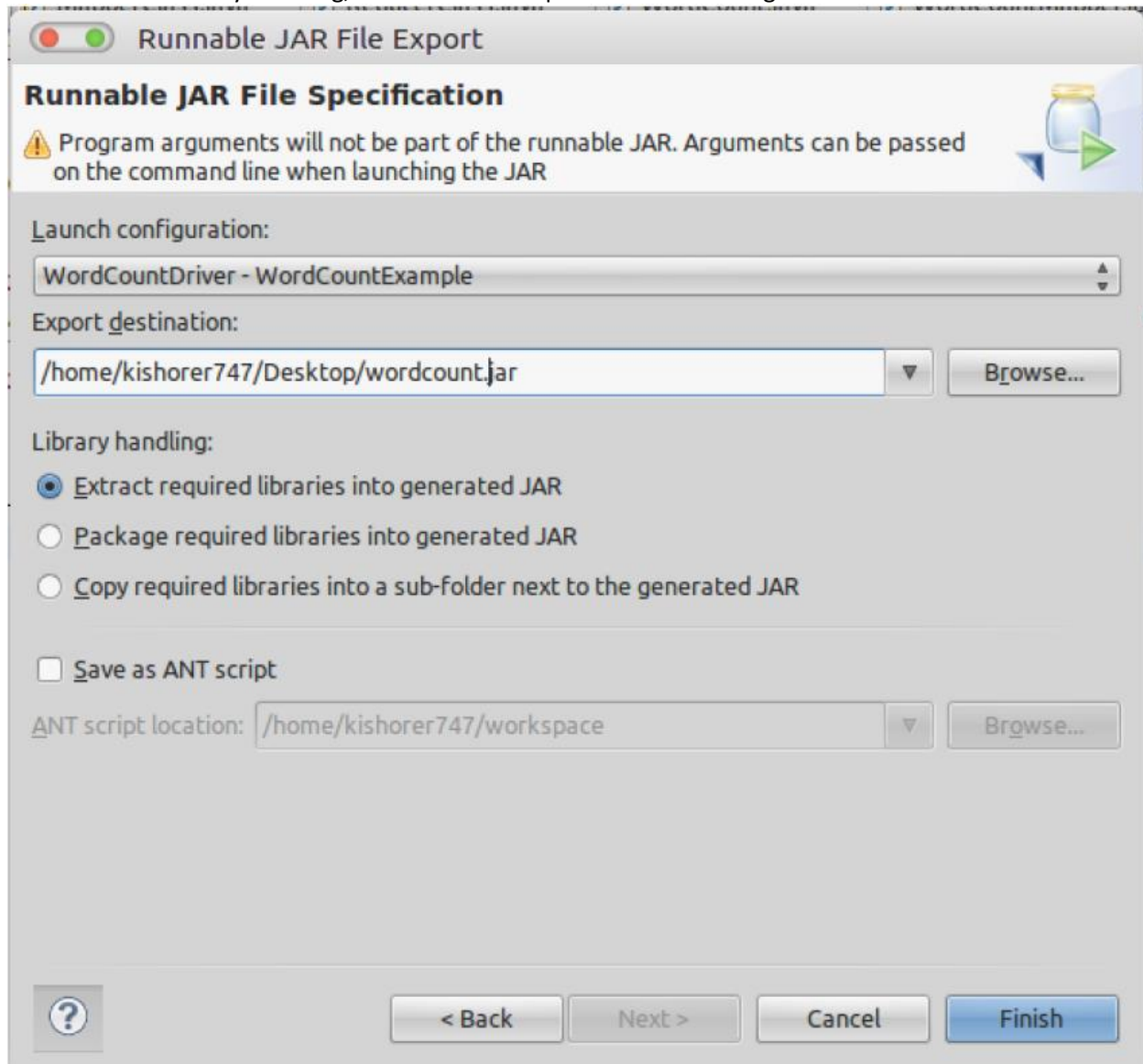
- Name – Any name will do – Ex: WordCountConfig
- Project – Browse and select your project
- Main Class – Select WordCount.java – this is our main class



### Step 6:

Click on File tab and select Export. Under Java, select Runnable Jar.

- In Launch Config – select the config file you created in Step 5 (WordCountConfig).
- Select an export destination ( lets say desktop.)
- Under Library handling, select Extract Required Libraries into generated JAR and click Finish.



### Command to run the Job:

Open the terminal and run the blow command.

hadoop jar <jar name> <class name with entire package name> <Input path> <Output path>

E.g. `hadoop jar wcount.jar in.edu.insofe.wc.WordCount /tmp/MRInput/pg4300.txt /tmp/MROutput`