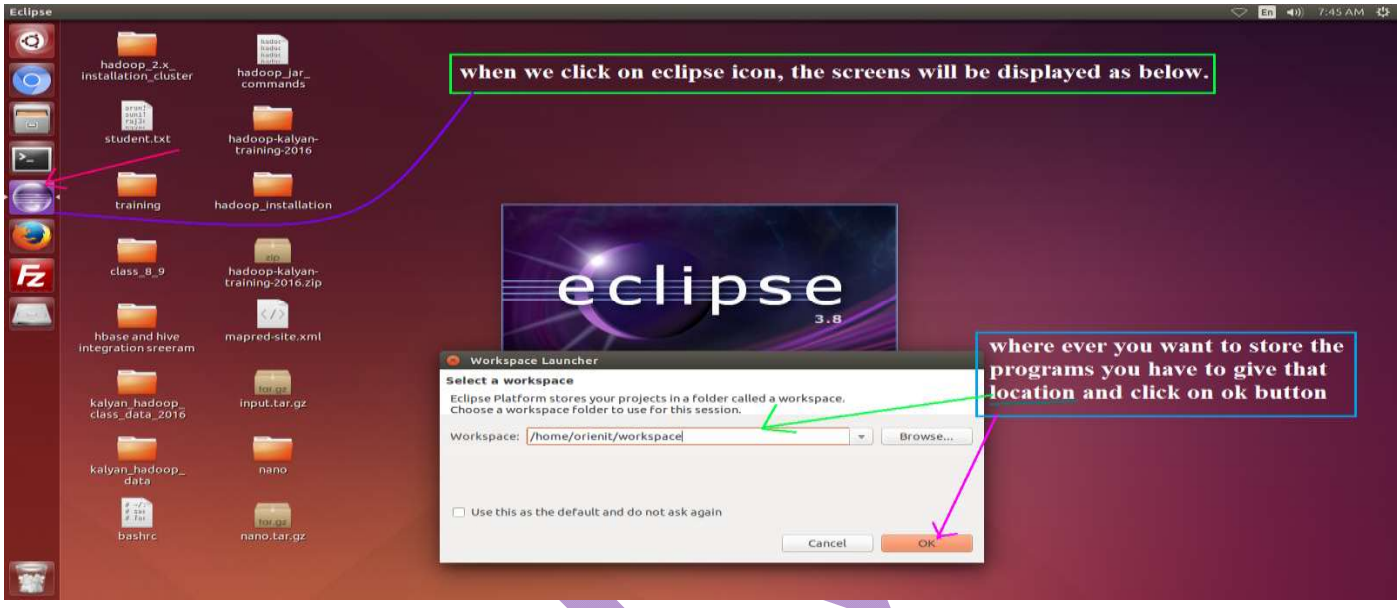
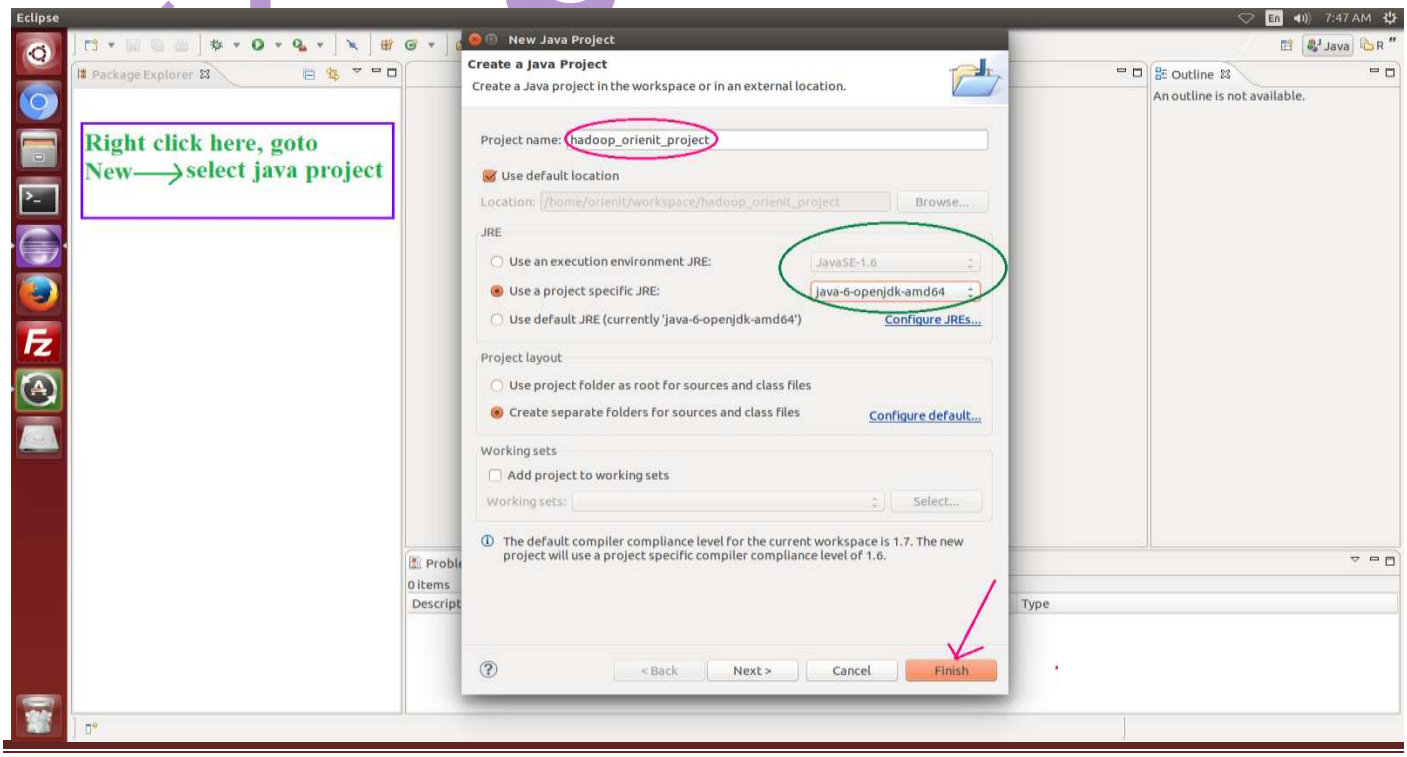
Eclipse Operations for Map Reduce Program

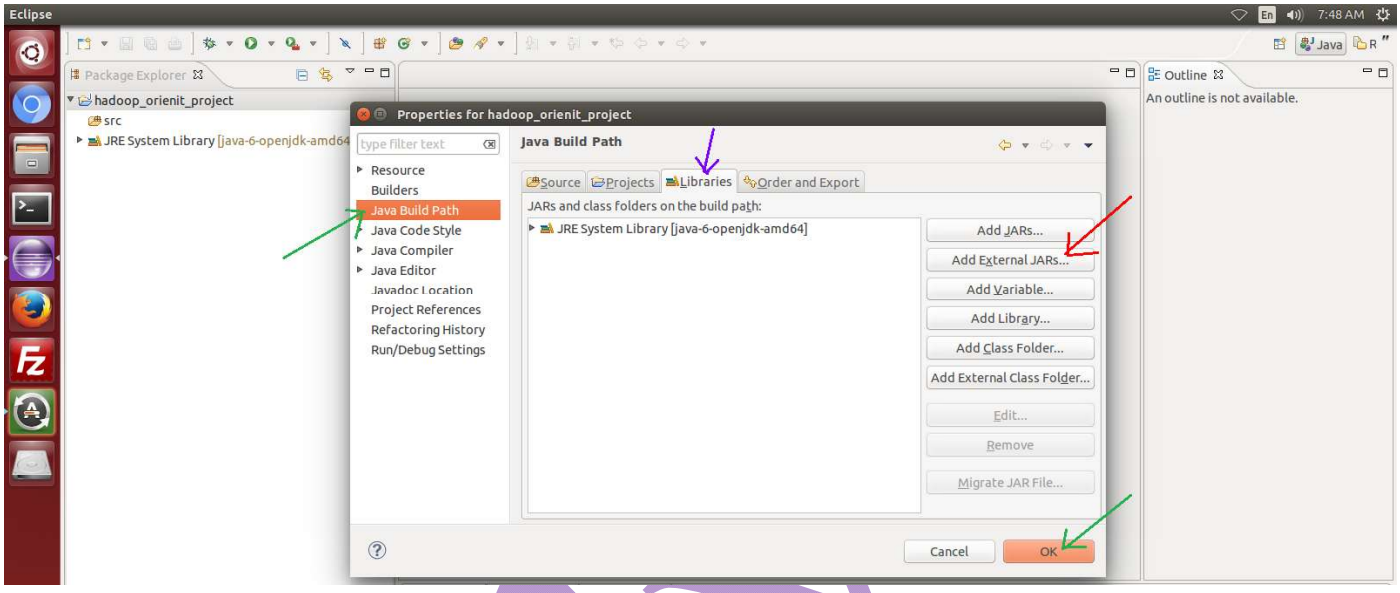
1. To do practice on **Map Reduce Programs** , first we need to start the **eclipse** and remaining steps follow the screen shots.
2. Provide the **workspace** path then click on **Ok** button.



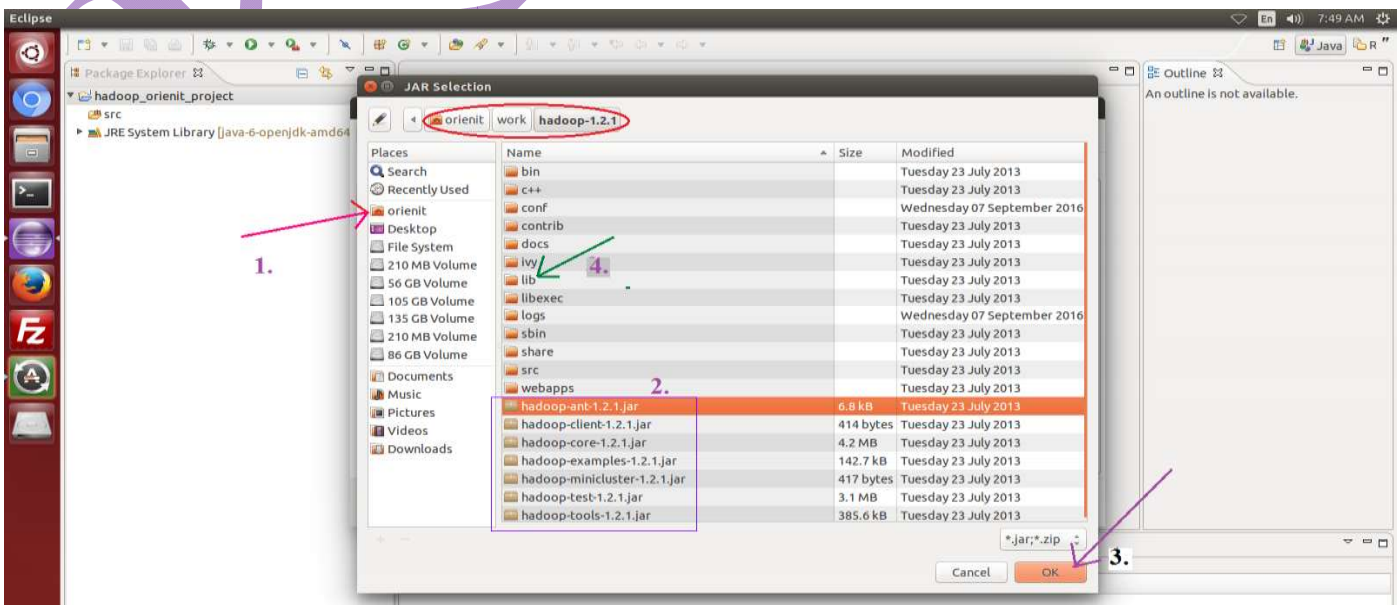
3. Right click on **Package Explorer** prompt at left side of the window.
4. Go to New ⟶ select **Java Project** then provide the project name and verify **JRE**
5. Click on **Finish** button.



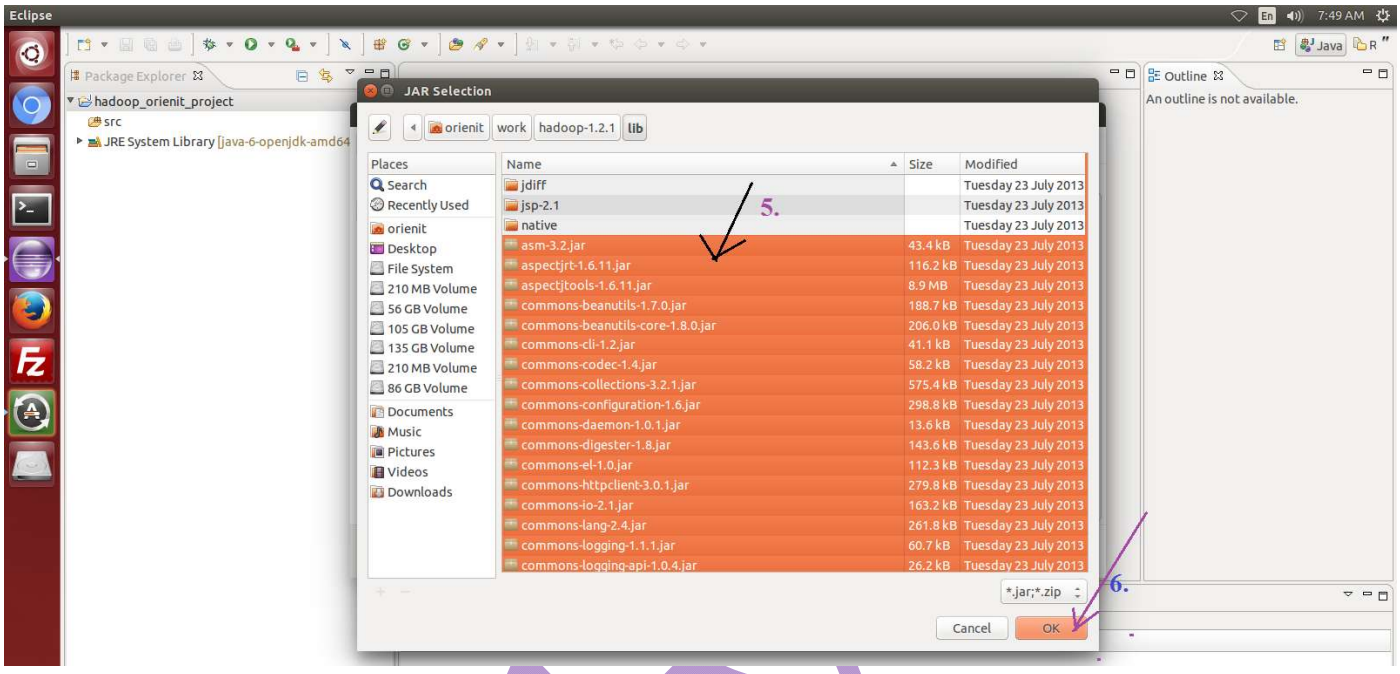
6. **Hadoop Local Mode Setup** follow the below steps
    a. add the **$HADOOP_HOME** folder jar files
    b. add the **$HADOOP_HOME/lib** folder jar files
7. Right click on **Project Name** goto **Properties** > **Java Build Path** then below screen open.



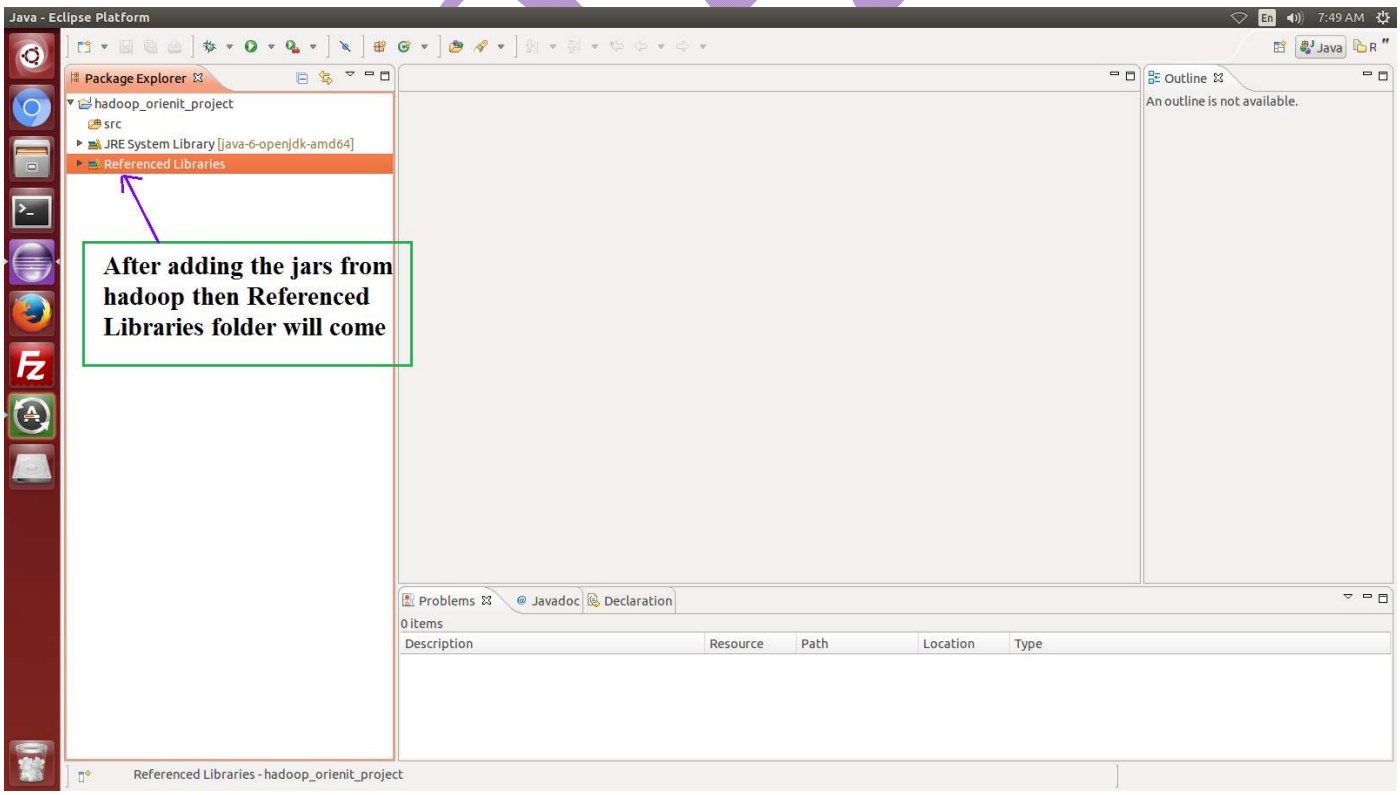
8. Click on **Libraries** tab
9. Click on **Add External JARS...** then below screen open.
10. Click on **orienit** folder at left side of the Window
11. Click on **work** folder
12. Click on **hadoop-1.2.1** folder
13. Select the **all the jars** from **hadoop-1.2.1** folder then click on **OK** button



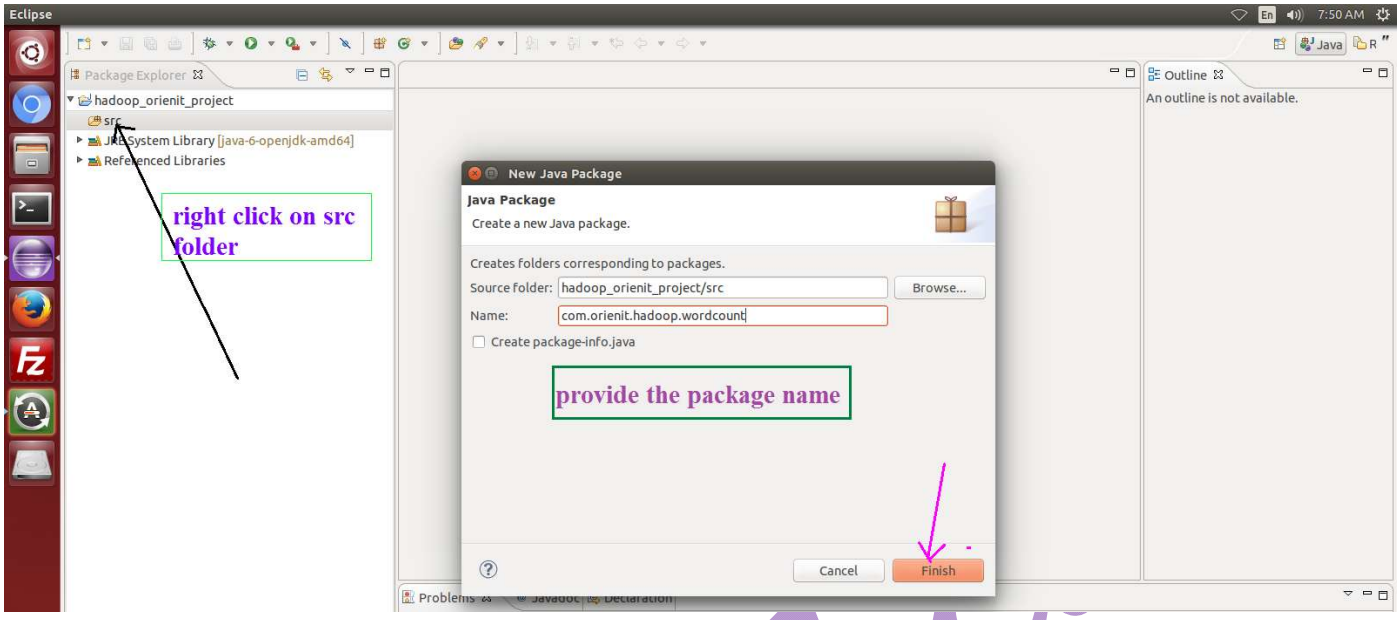
14. Repeat once again **8 step** to **12 step**.
15. Click on **lib** folder
16. Select the **all the jars** from **lib** folder then click on **OK** button



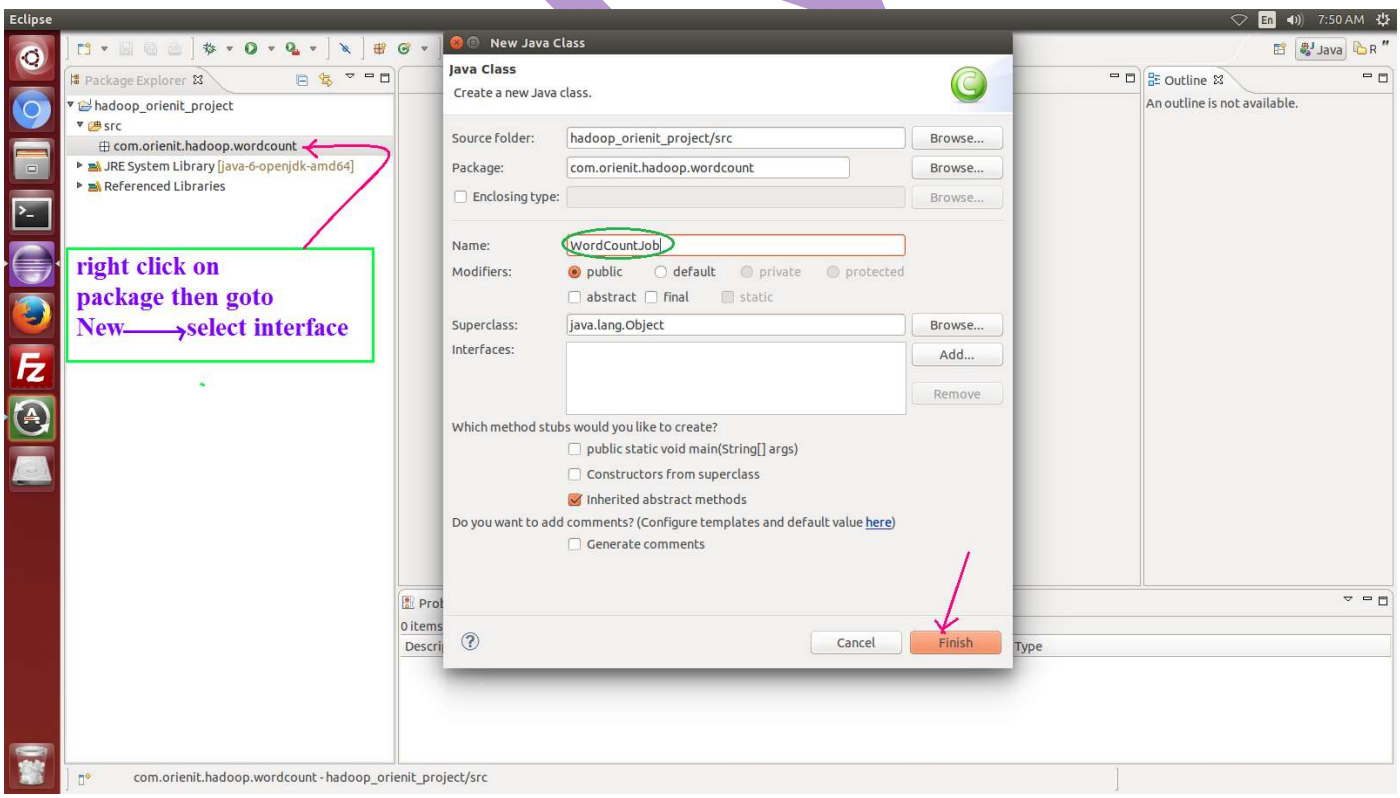
17. Now we are done with adding **all the required jars** to **classpath.**
18. Verify the **Package Explorer** screen & Expand the **Project Name** by **Double Clicking** then **Referenced Libraries** will be displayed.



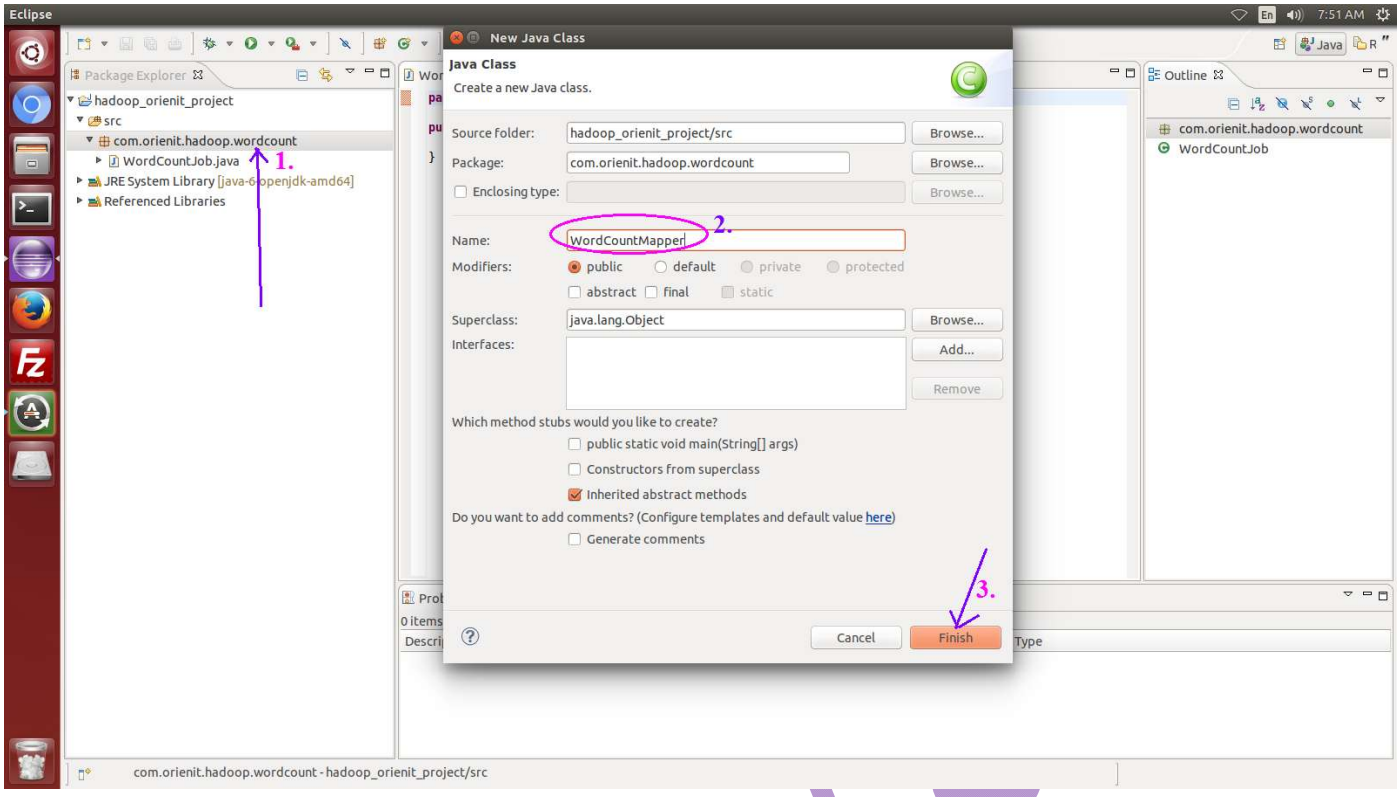
19. Right click on **src** folder and goto New ⟶ select **package** and provide the **package** name then Click on **Finish** button.



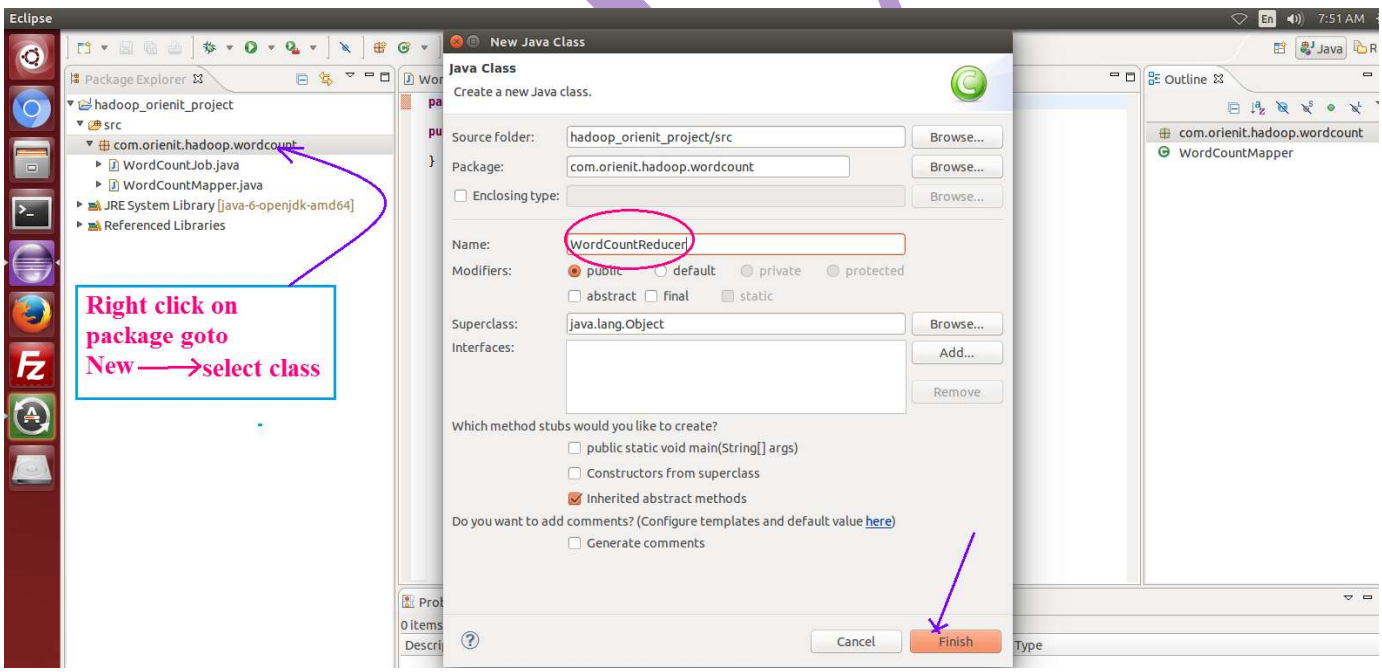
20. Right click on **package** then goto New⟶ select **Class**, provide the **Class Name** (WordCountJob) then Click on Finish button.



21. Right click on **package** then goto New⟶ select **Class**, provide the **Class Name** (WordCountMapper) then Click on Finish button.

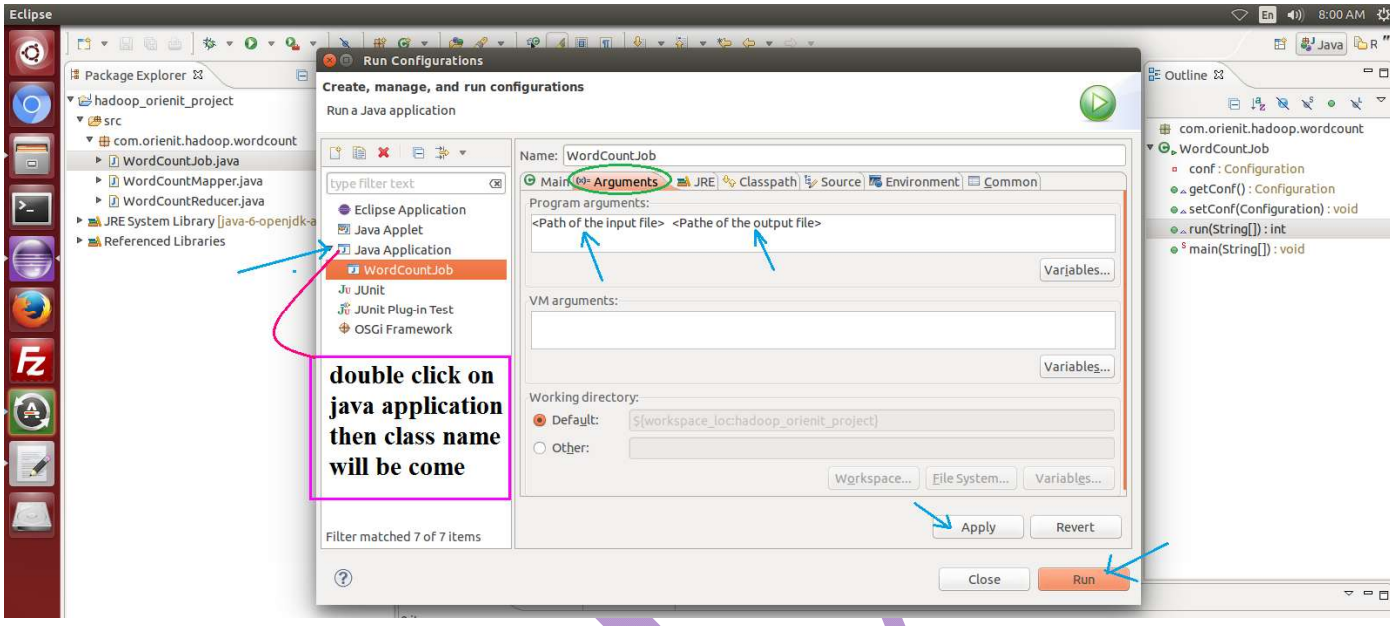


22. Right click on **package** then goto New ⟶ select **Class**, provide the **Class Name** (WordCountReducer) then Click on Finish button.

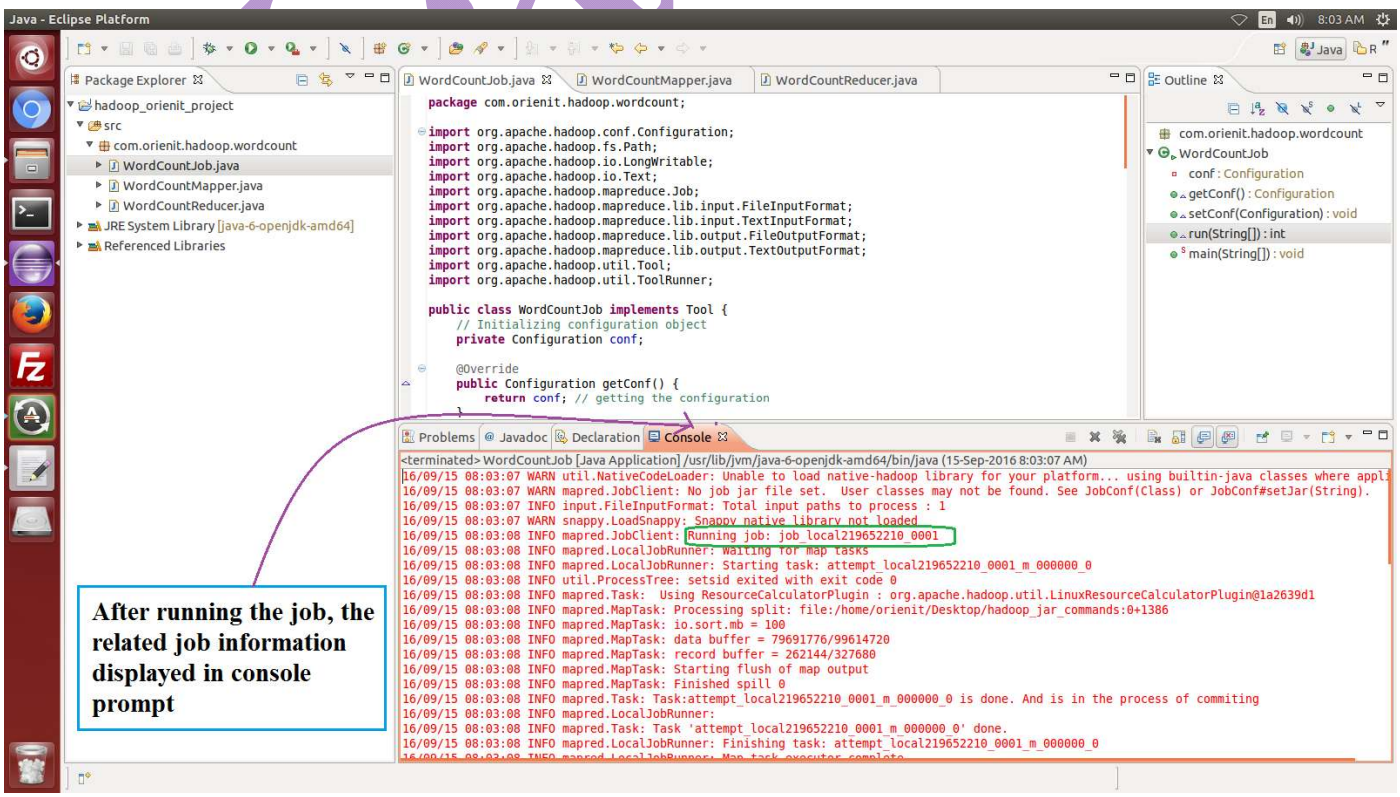


23. After writing the **complete code**, then we need to **Run** the program follow the below steps to proceed.
24. Right Click on "**WordCountJob**" program select **Run > Run Configurations** then below window will be displayed.

25. Double click on **Java Application** then main class name will be come
26. Click on main class name (**WordCountJob**) and select **Arguments** tab then provide the **input path of the file / folder** and provide the **path of the output folder**.
27. Click on **Apply** button and then Click on **Run** button.



28. After click on **Run** button, then the message will be displayed on **Console** prompt see below screen shot.



29. After **Complete the job** the **status** will be displayed '**0**' that means **Job is successful** otherwise **not successful**, see below screen shot.