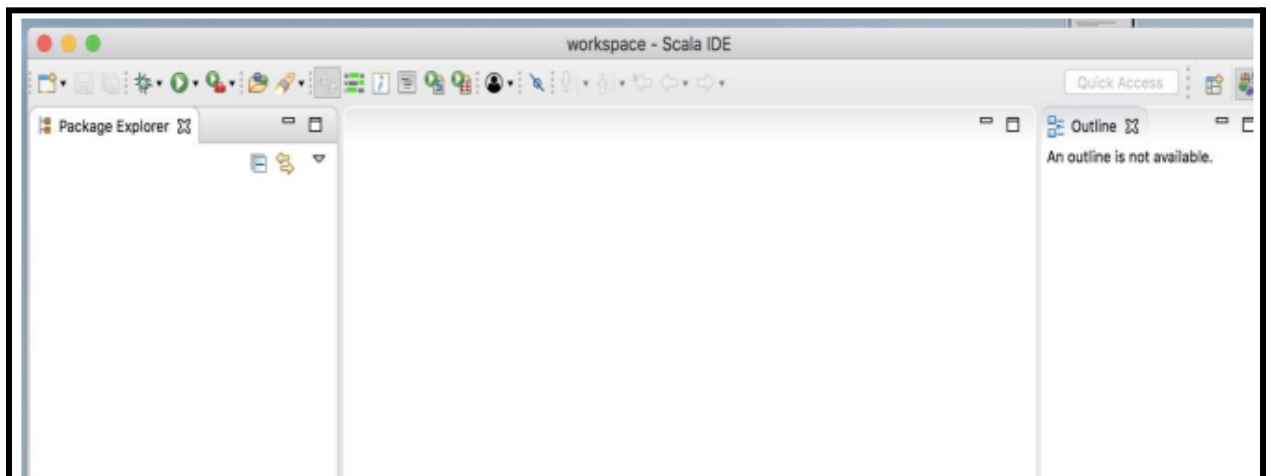# How to create a Maven project in Eclipse?

Today, Eclipse is one of the commonly used IDEs for different application development. And let's have a glance on how to create a Maven project in the Eclipse with a Spark environment, so that we can develop and test a few applications in Spark efficiently. Following are the suggestive steps and few can vary depending upon the requirements.

1. Depends on the OS, download the Eclipse IDE from http://scala-ide.org/download/sdk.html
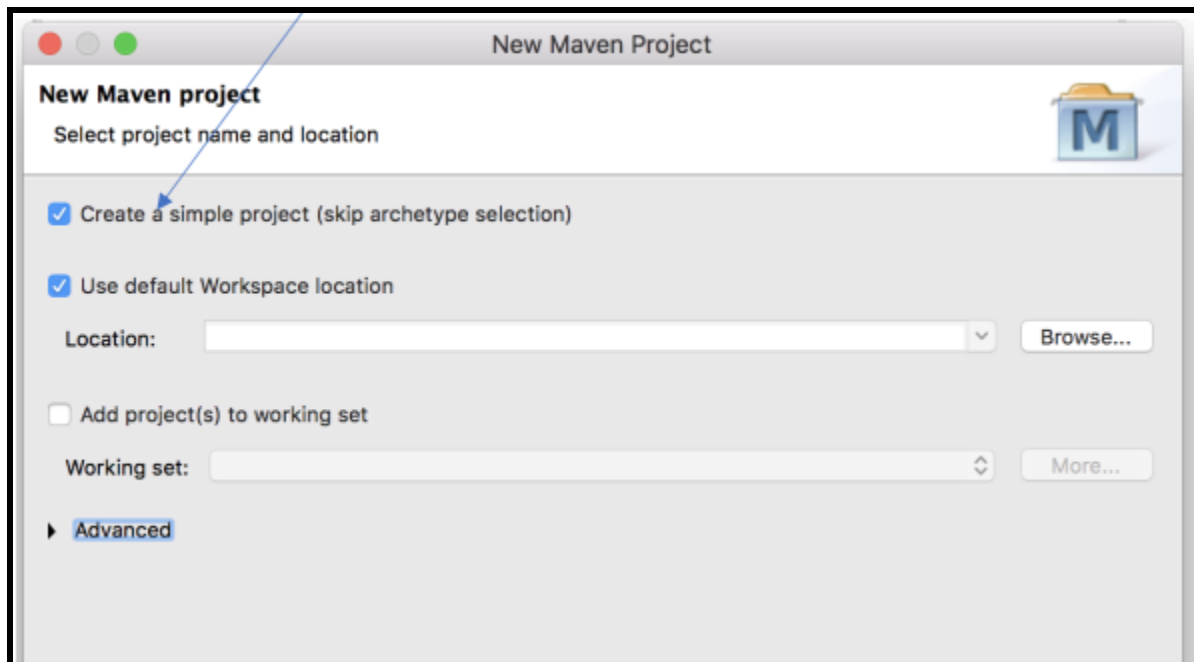

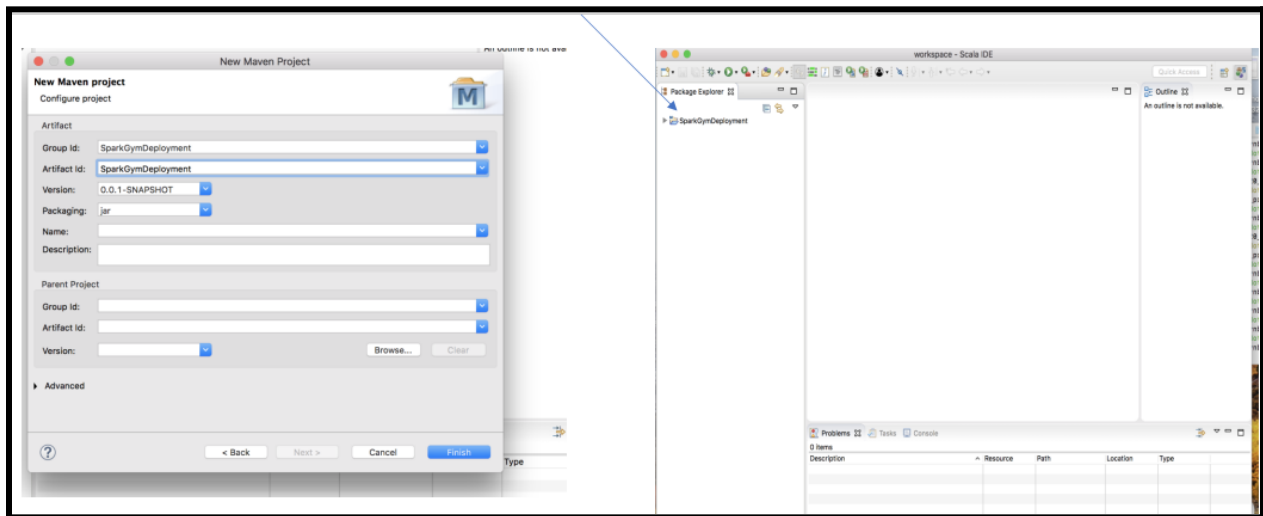2. Once we open the Eclipse, we can see a window as given below.

3. Go to File ----> New ----> Other option.
4. Select Maven ----> Maven Project

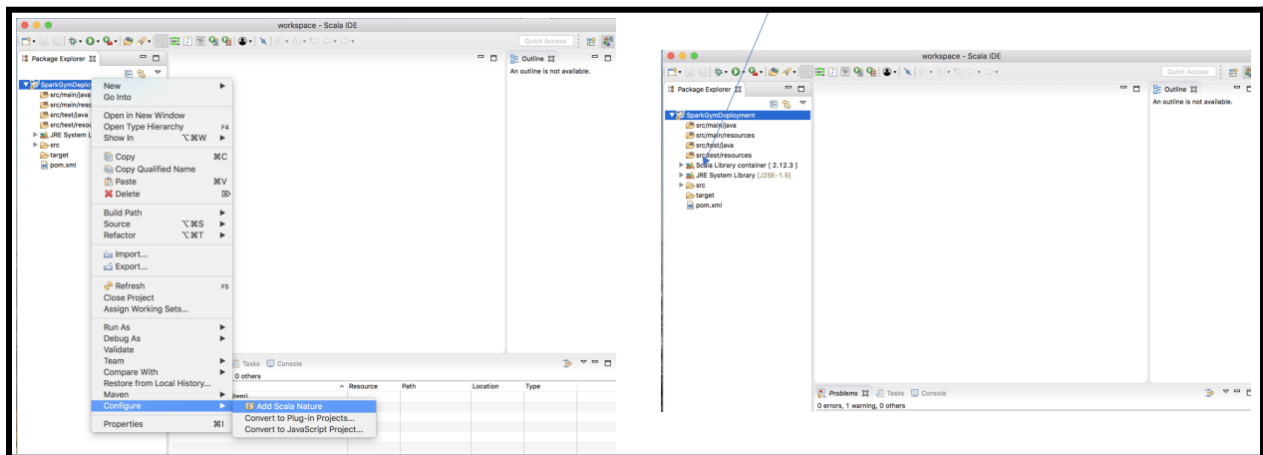5. Mark "create a simple project" box in the following window.

6. Enter Group Id and Artifact Id and click Finish.
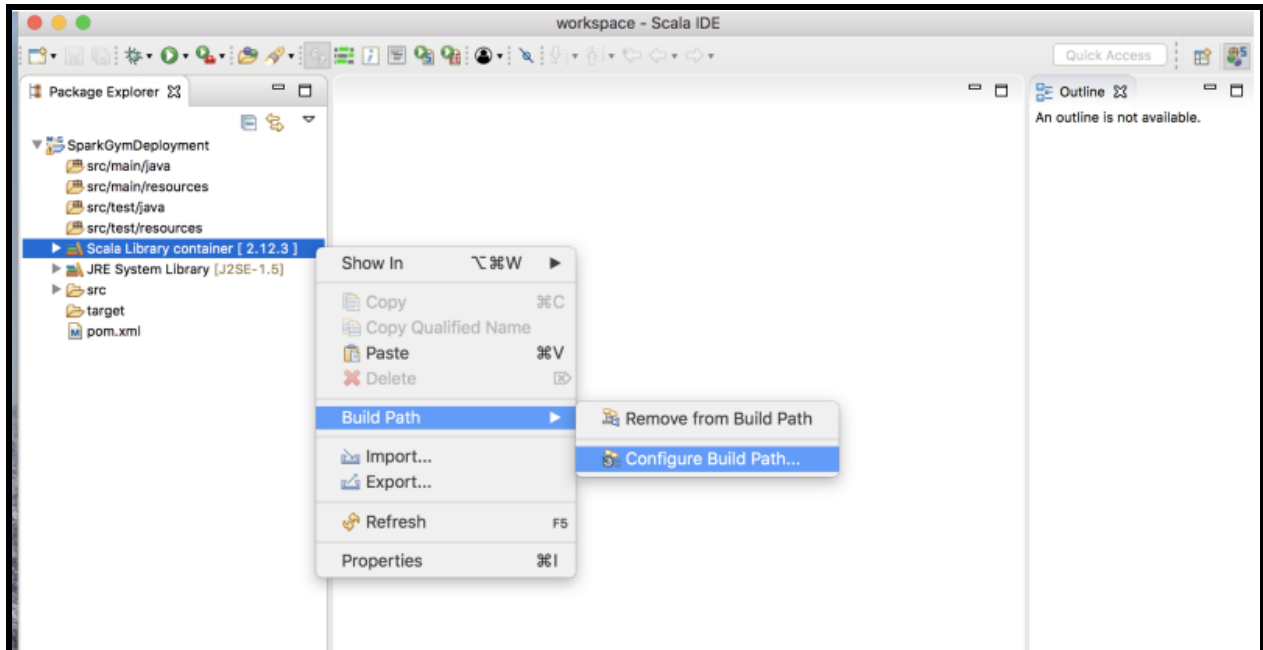We can see the project created in the eclipse panel.
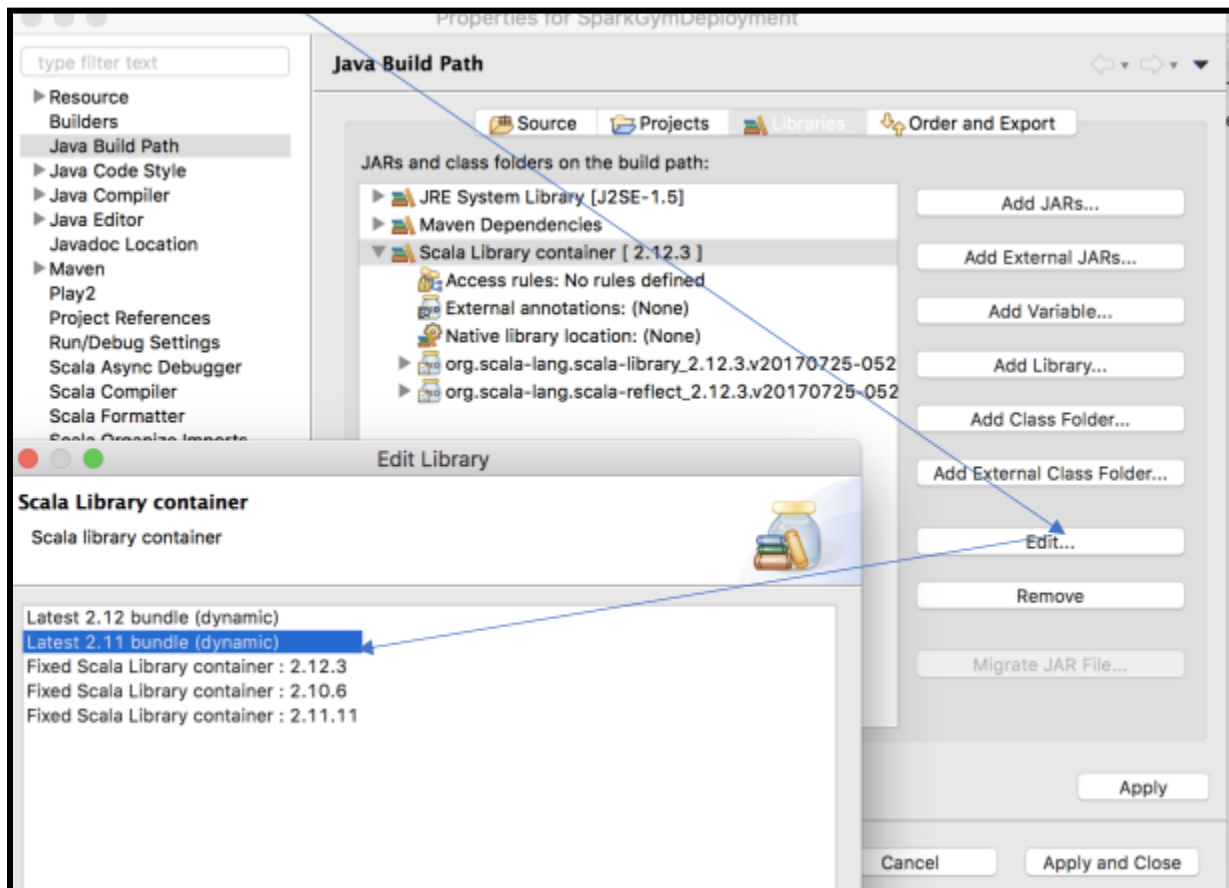
Configure Scala nature

7. Right click on the project created and go to – configure ----> Add Scala Nature. Now the Scala Libraries container will be updated.
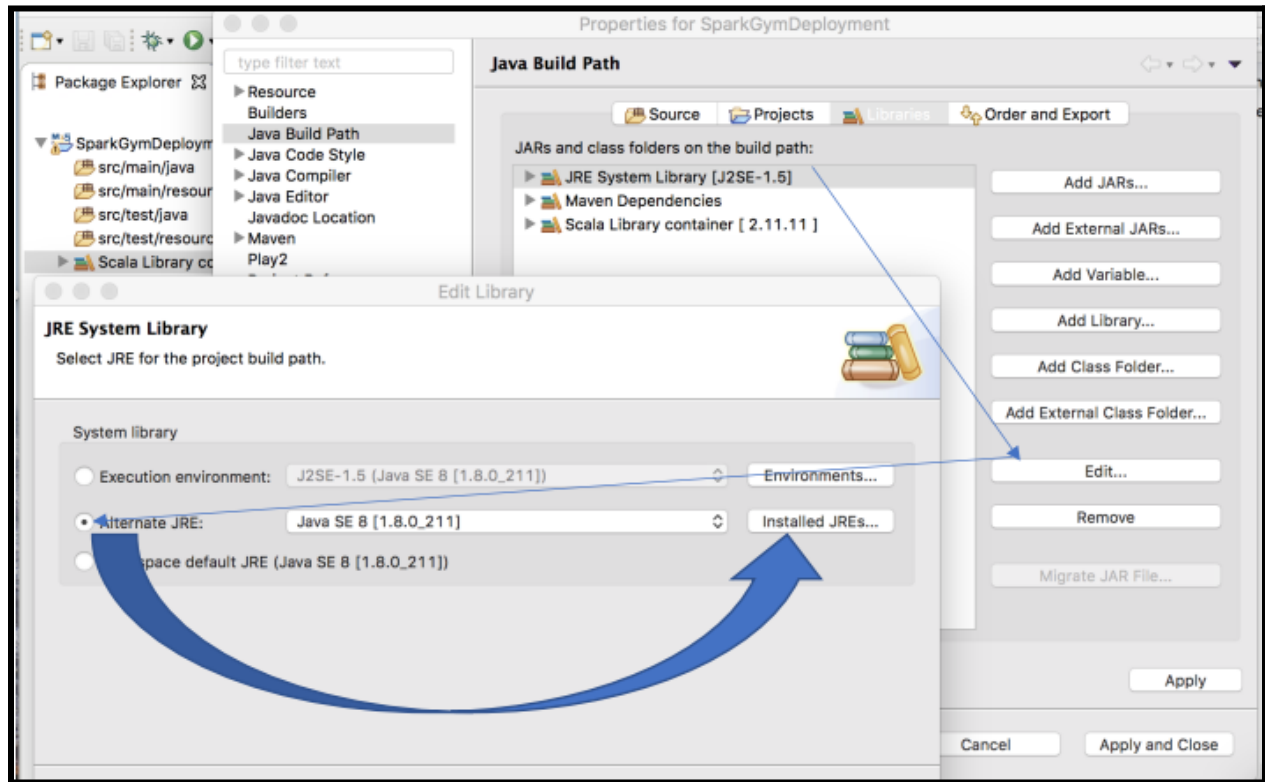

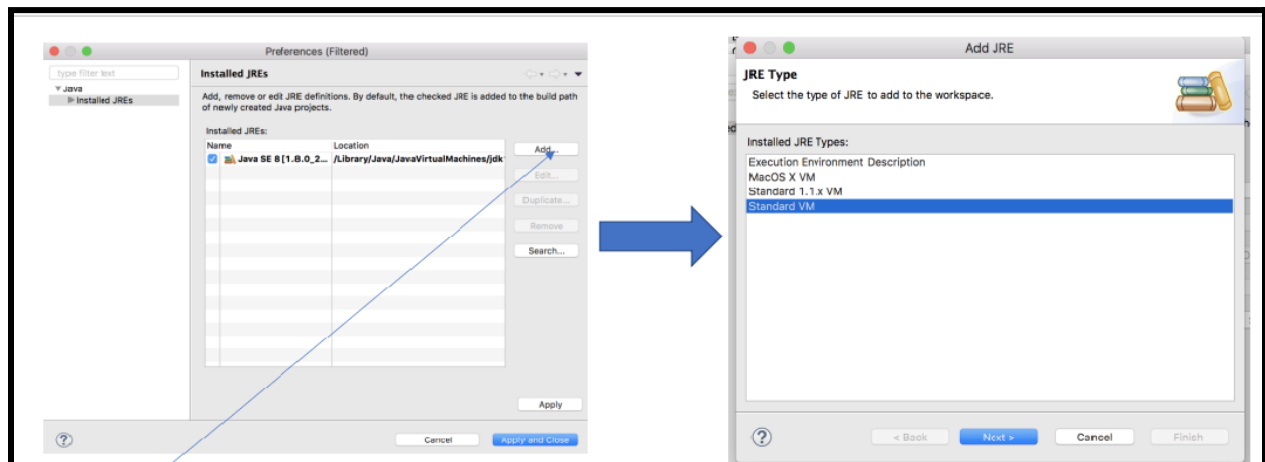8. Go to Scala Library Container ----> Build Path ----> Configure Build Path.

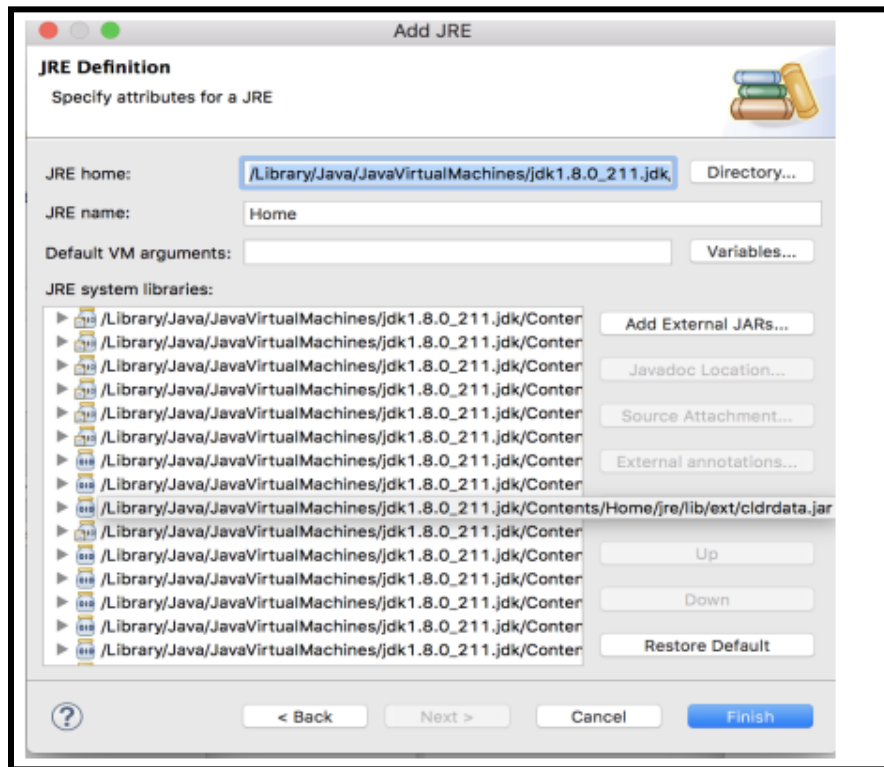9. Go to Edit ----> Latest 2.11 bundle(dynamic).

10. Go to the JRE System Library ----> Edit ----> Alternative JRE.
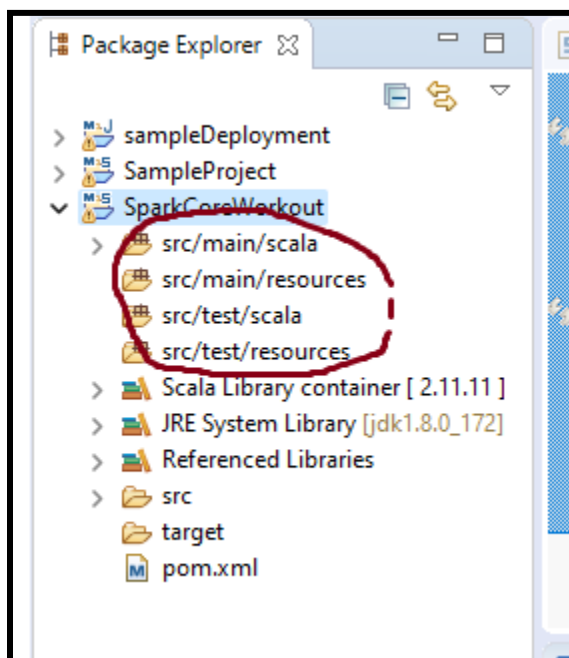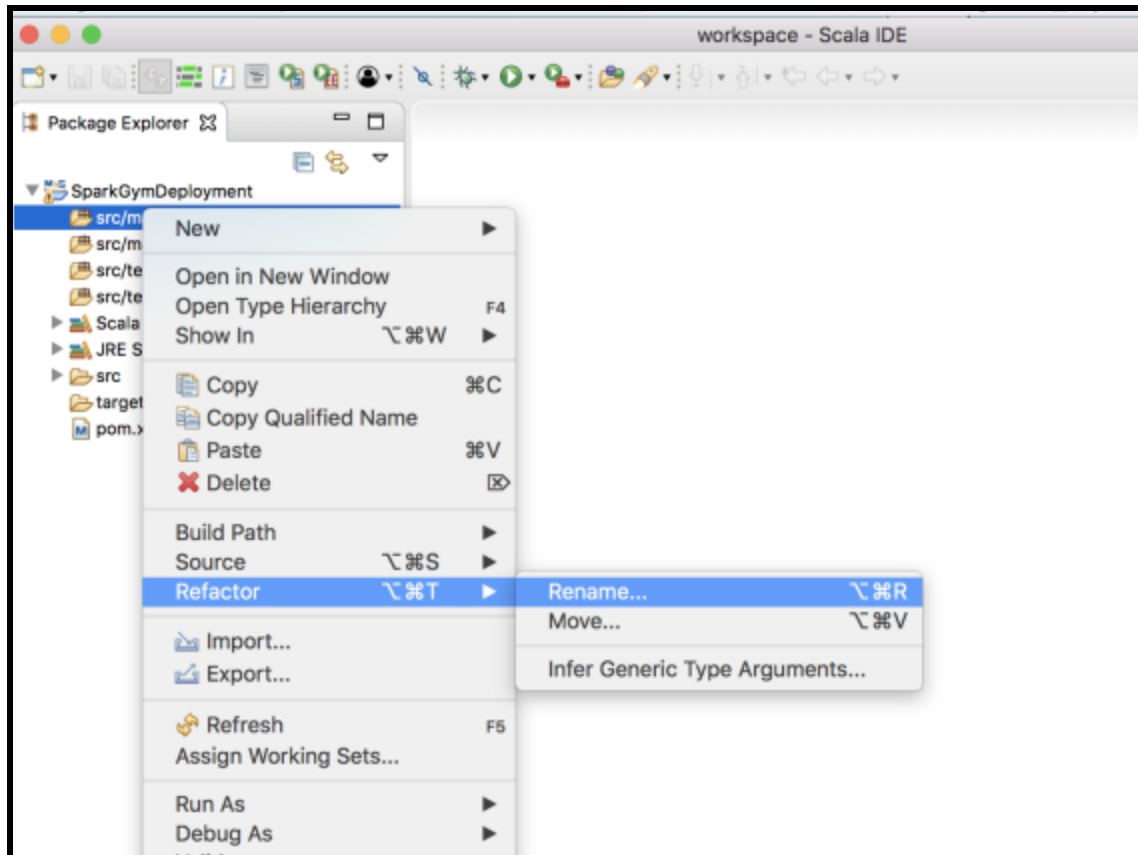Select Java location installed from the user system.

11. After uploading the Java dependencies, Click Add ----> Standard VM ---->
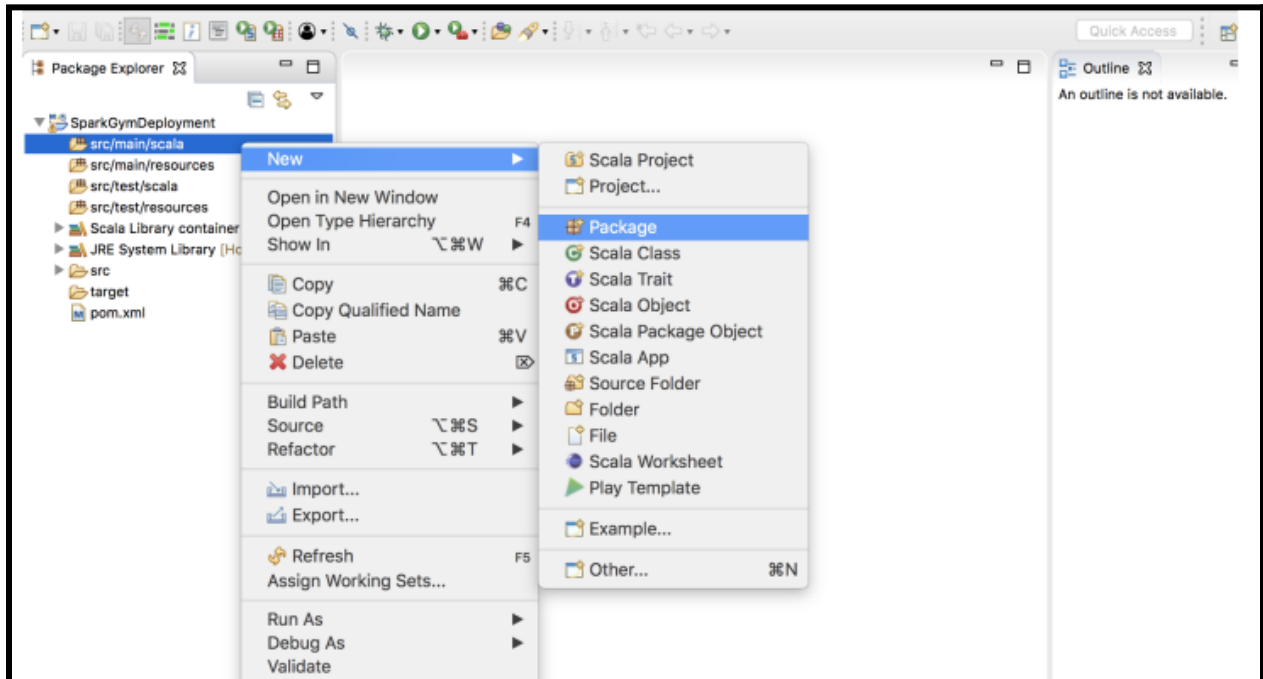Next ----> Finish.

12. Rename /src/main/java to /src/main/scala and /src/test/java to /src/test/scala
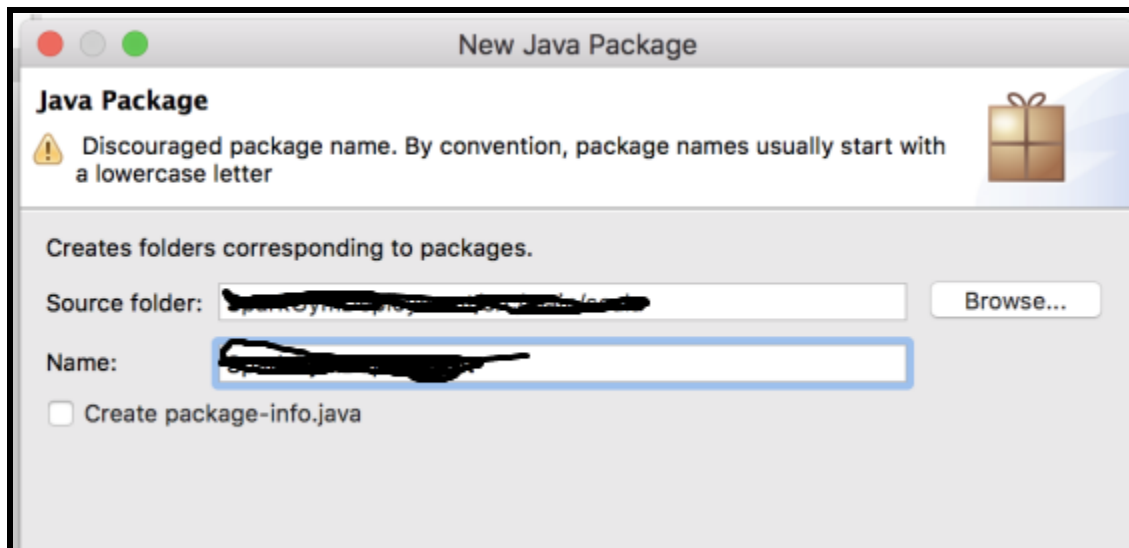
13. Create package by following

src/main/scala ----> New ---->Package

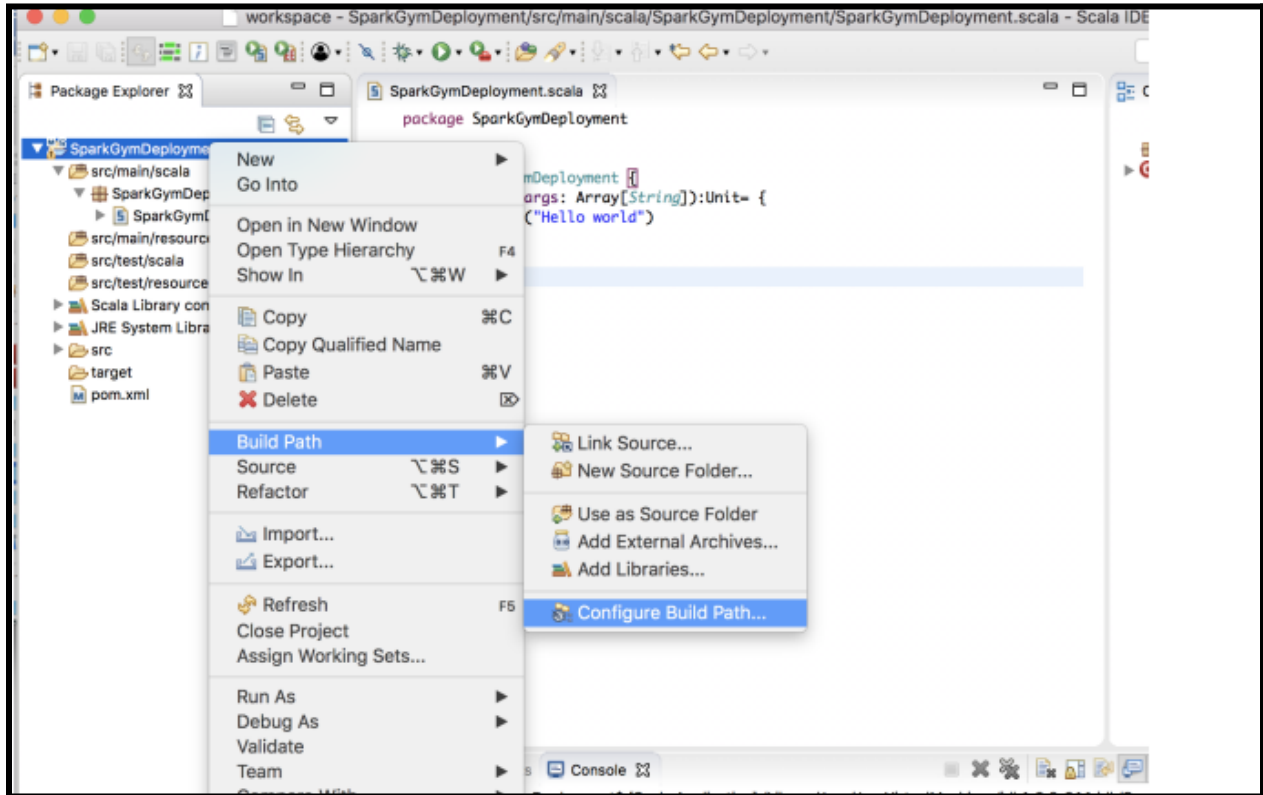14. Once we enter the name in the Name box, click Finish.

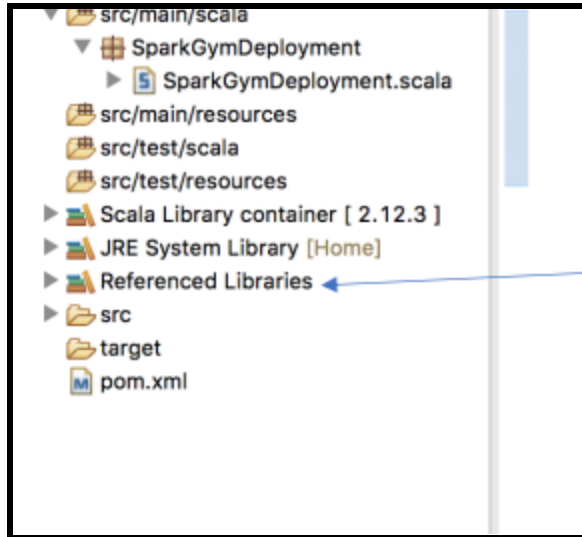**Spark Environment Set up**

Configure Spark environment

Download spark-2.3.0-bin-hadoop2.7 and go to Project and right click,

go to Build Path ----> Configure Build Path.
Go to Libraries ----> Add External Jars ----> select all jars (command+A / ctrl +A) ----->open ----> Apply & close.

We can see Referenced Libraries in the left panel and now we can say that our project is powered with Spark environment. Scala Library version can change if required (Scala Library Container 2.12.3 to Scala Library Container 2.11.11).

Now we have created a Maven project powered by Scala in the Eclipse IDE. And we can execute different Spark tasks in this environment.