

How to Download & Install Selenium WebDriver

Step 1 - Install Java on your computer

Download and install the **Java Software Development Kit (JDK)** [here](#).

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Java Platform (JDK) 8u121

NetBeans with JDK 8

Java Platform, Standard Edition

Java SE 8u121
Java SE 8u121 includes important security fixes. Oracle strongly recommends that all Java users upgrade to this release.
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Java SE Development Kit 8u121
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

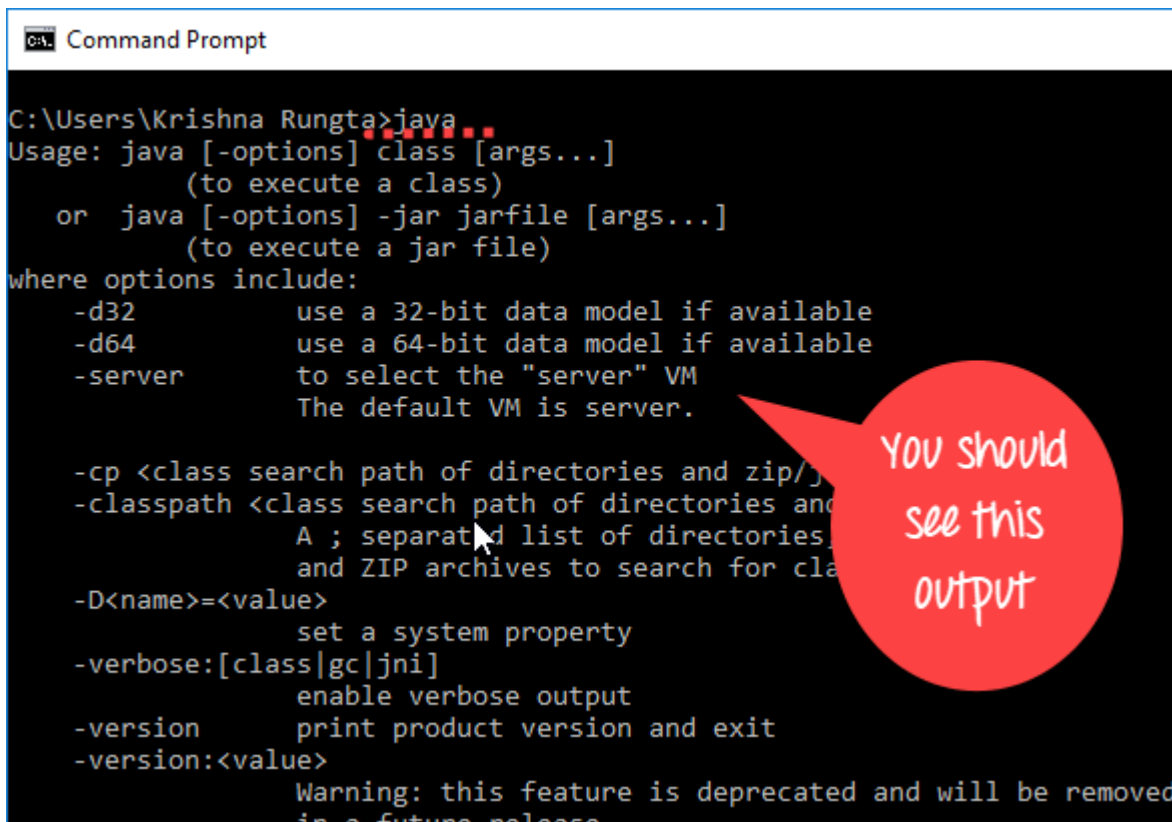
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Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	77.86 MB	jdk-8u121-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	74.83 MB	jdk-8u121-linux-arm64-vfp-hflt.tar.gz
Linux x86	162.41 MB	jdk-8u121-linux-i586.rpm
Linux x86	177.13 MB	jdk-8u121-linux-i586.tar.gz
Linux x64	159.96 MB	jdk-8u121-linux-x64.rpm
Linux x64	174.76 MB	jdk-8u121-linux-x64.tar.gz
Mac OS X	223.21 MB	jdk-8u121-macosx-x64.dmg
Solaris SPARC 64-bit	139.64 MB	jdk-8u121-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	99.07 MB	jdk-8u121-solaris-sparcv9.tar.gz
Solaris x64	140.42 MB	jdk-8u121-solaris-x64.tar.Z
Solaris x64	96.9 MB	jdk-8u121-solaris-x64.tar.gz
Windows x86	189.36 MB	jdk-8u121-windows-i586.exe
Windows x64	195.51 MB	jdk-8u121-windows-x64.exe

2 Choose the JDK that corresponds to your OS

This JDK version comes bundled with Java Runtime Environment (JRE), so you do not need to download and install the JRE separately.

Once installation is complete, open command prompt and type "java". If you see the following screen you are good to move to the next step



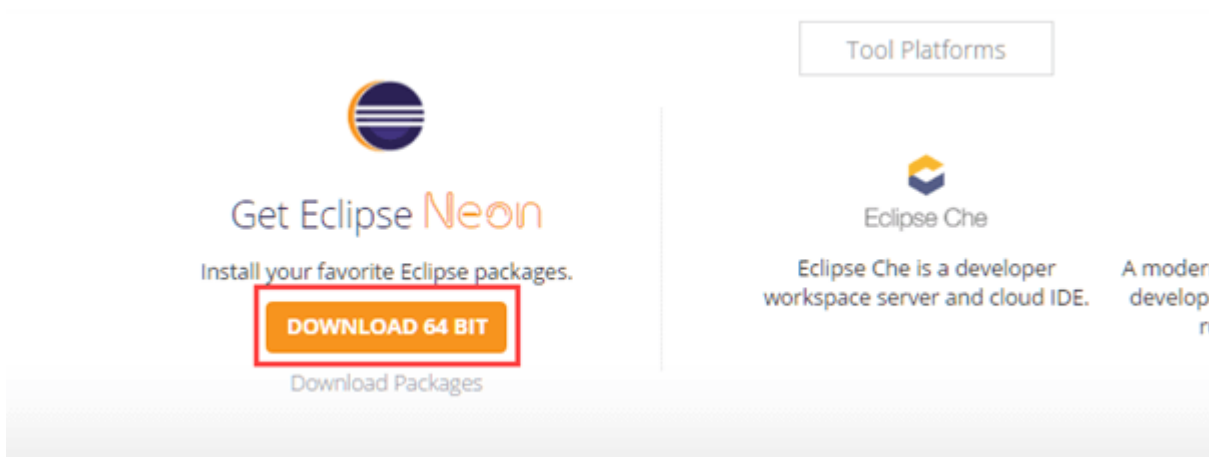
```
Command Prompt
C:\Users\Krishna Rungta>java
Usage: java [-options] class [args...]
           (to execute a class)
    or  java [-options] -jar jarfile [args...]
           (to execute a jar file)
where options include:
    -d32          use a 32-bit data model if available
    -d64          use a 64-bit data model if available
    -server       to select the "server" VM
                  The default VM is server.

    -cp <class search path of directories and zip/jar files>
    -classpath <class search path of directories and zip/jar files>
                  A ; separated list of directories, JAR archives,
                  and ZIP archives to search for class files.
    -D<name>=<value>
                  set a system property
    -verbose:[class|gc|jni]
                  enable verbose output
    -version       print product version and exit
    -version:<value>
                  Warning: this feature is deprecated and will be removed
                  in a future release.
```

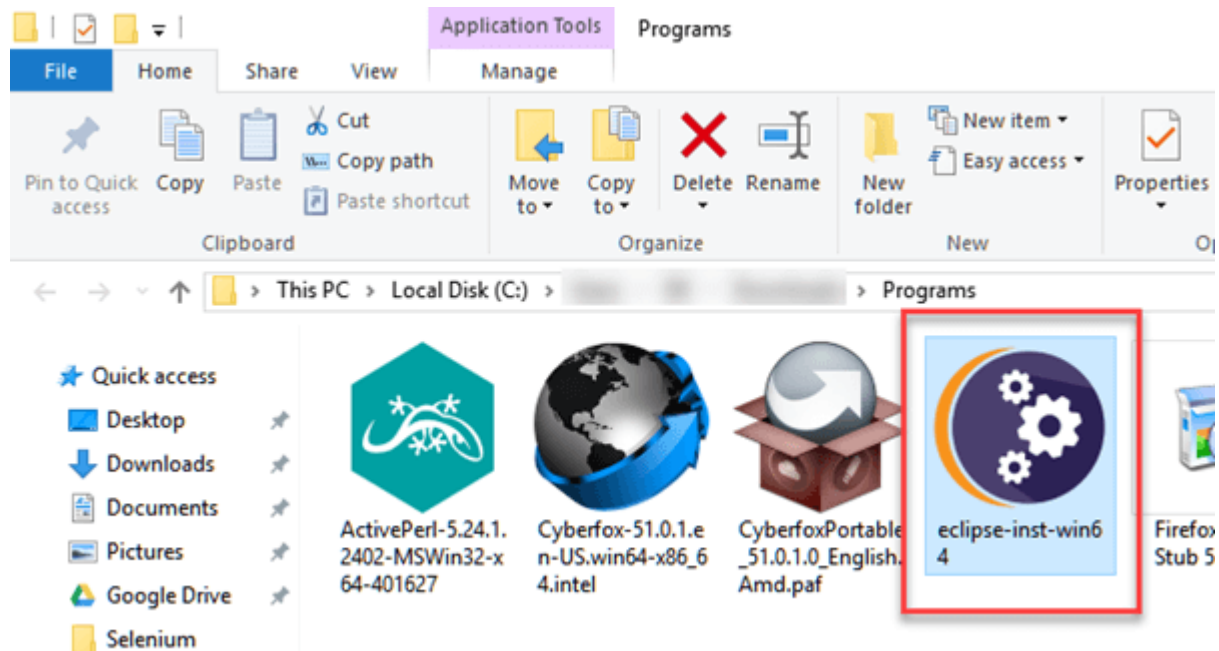
You should see this output

Step 2 - Install Eclipse IDE

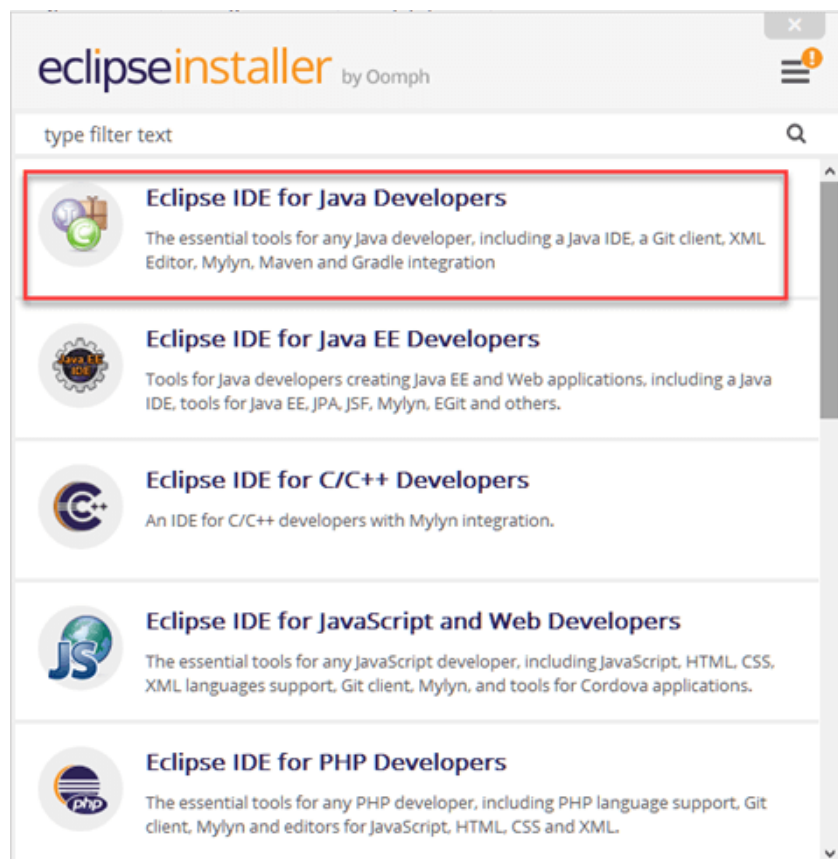
Download "Eclipse IDE for Java Developers" [here](#). Be sure to choose correctly between Windows 32 Bit and 64 Bit versions.



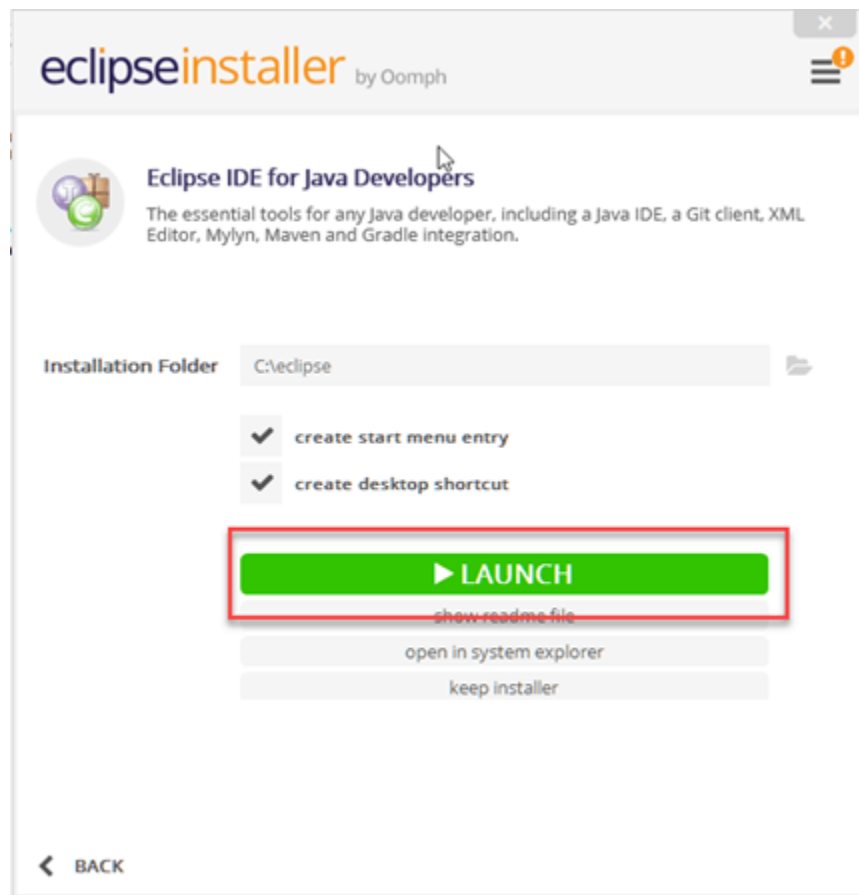
You should be able to download an exe file named "eclipse-inst-win64"



Double-click on file to Install the Eclipse. A new window will open. Click Eclipse IDE for Java Developers.



After successful completion of the installation procedure, a window will appear. On that window click on Launch



This will start eclipse neon IDE for you.

Step 3 - Download the Selenium Java Client Driver

You can download the **Selenium Java Client Driver** [here](#). You will find client drivers for other languages there, but only choose the one for Java.

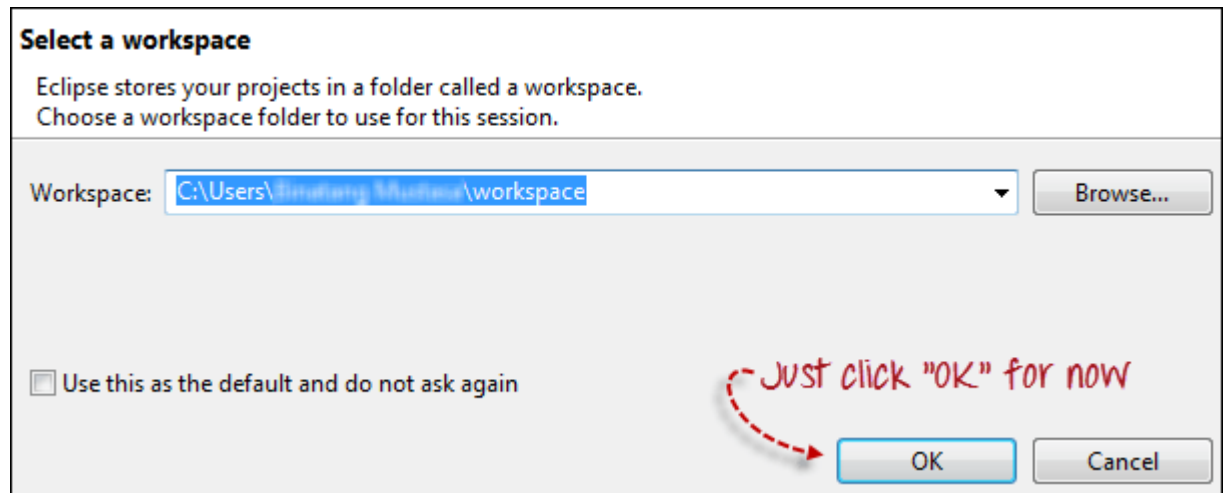
this is the download for Java Client Driver

Language	Client Version	Release Date	Download	Change log	Javadoc
Java	3.0.1	2016-10-18	Download	Change log	Javadoc
C#	3.0.0	2016-10-13	Download	Change log	API docs
Ruby	3.0.0	2016-10-13	Download	Change log	API docs
Python	3.0.2	2016-11-29	Download	Change log	API docs
Javascript (Node)	3.0.0-beta-2	2016-08-07	Download	Change log	API docs

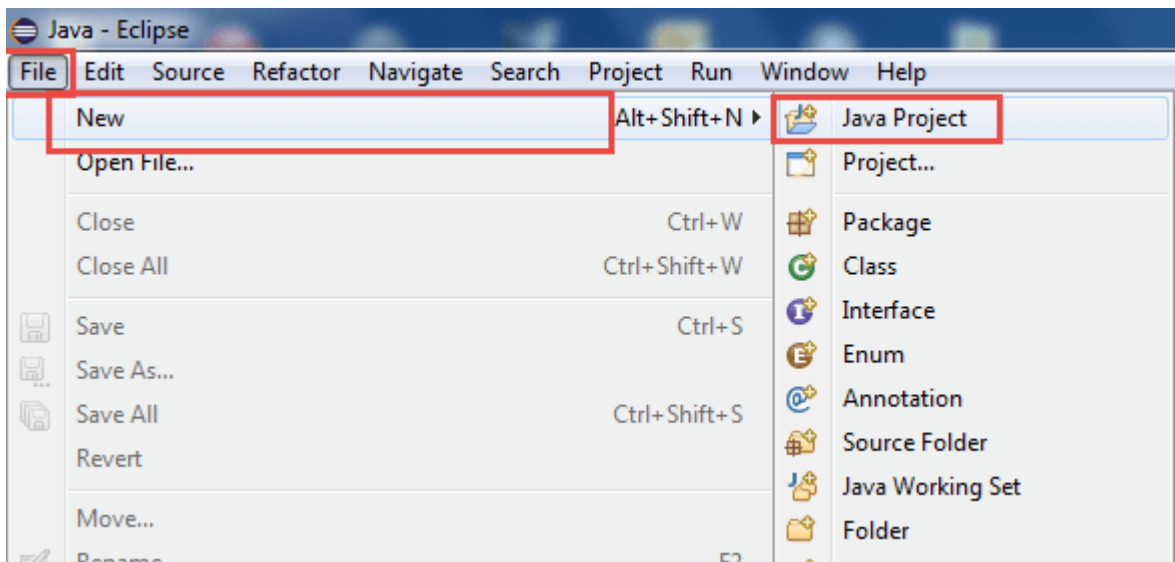
This download comes as a ZIP file named "selenium-2.25.0.zip". For simplicity, extract the contents of this ZIP file on your C drive so that you would have the directory "C:\selenium-2.25.0\". This directory contains all the JAR files that we would later import on Eclipse.

Step 4 - Configure Eclipse IDE with WebDriver

1. Launch the "eclipse.exe" file inside the "eclipse" folder that we extracted in step 2. If you followed step 2 correctly, the executable should be located on C:\eclipse\eclipse.exe.
2. When asked to select for a workspace, just accept the default location.



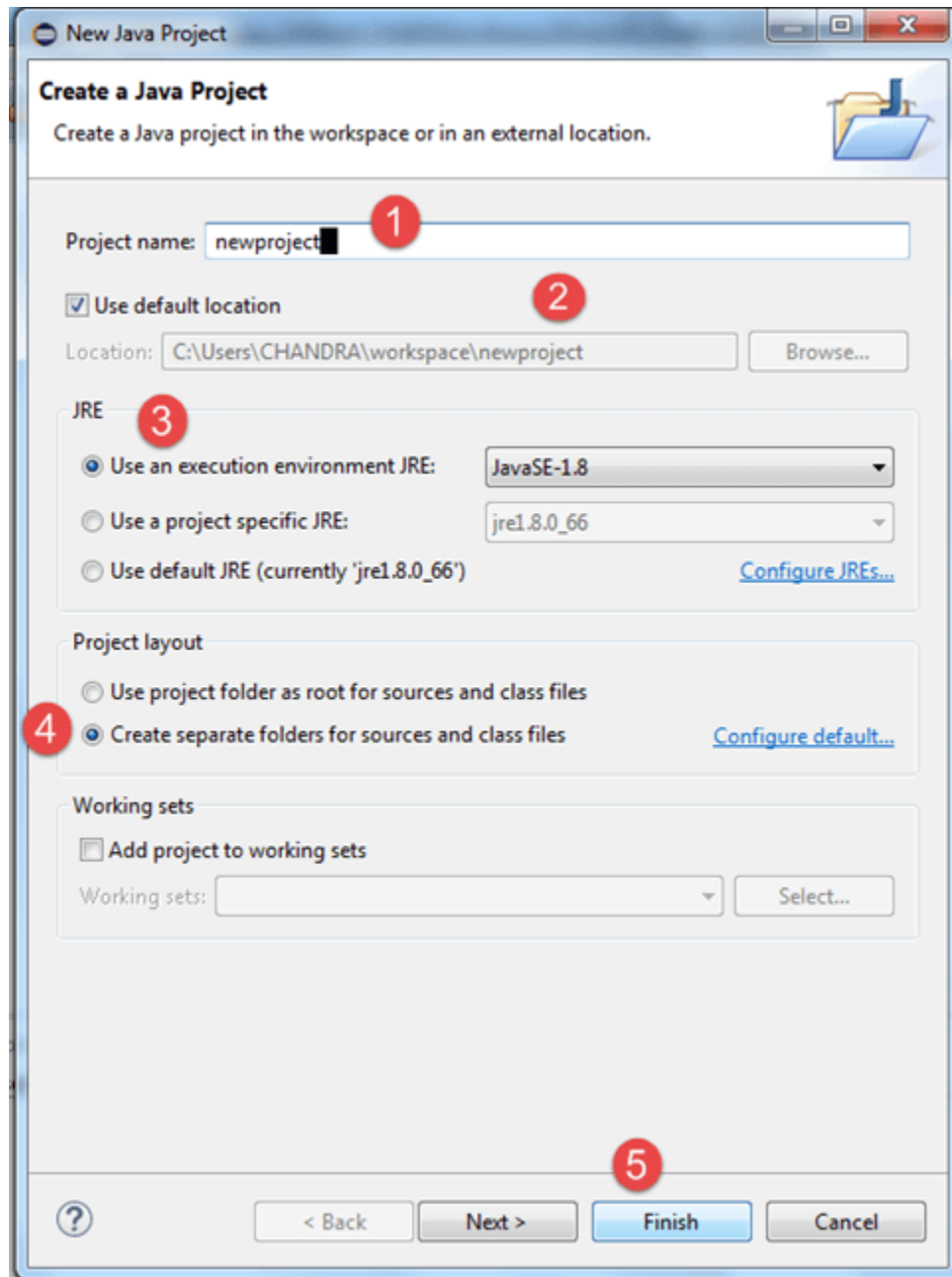
3. Create a new project through File > New > Java Project. Name the project as "newproject".



A new pop-up window will open enter details as follow

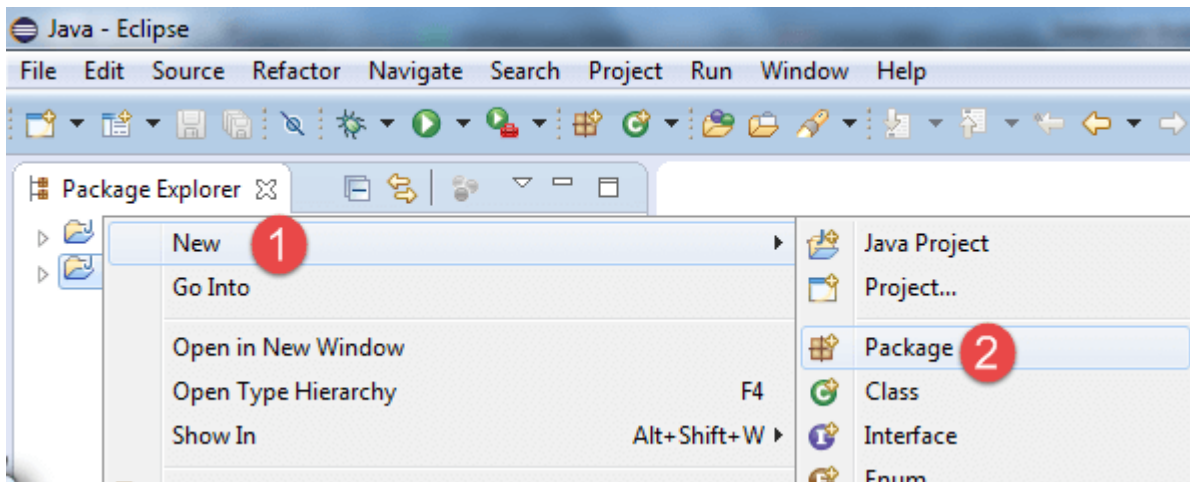
1. Project Name
2. Location to save project

3. Select an execution JRE
4. Select layout project option
5. Click on Finish button



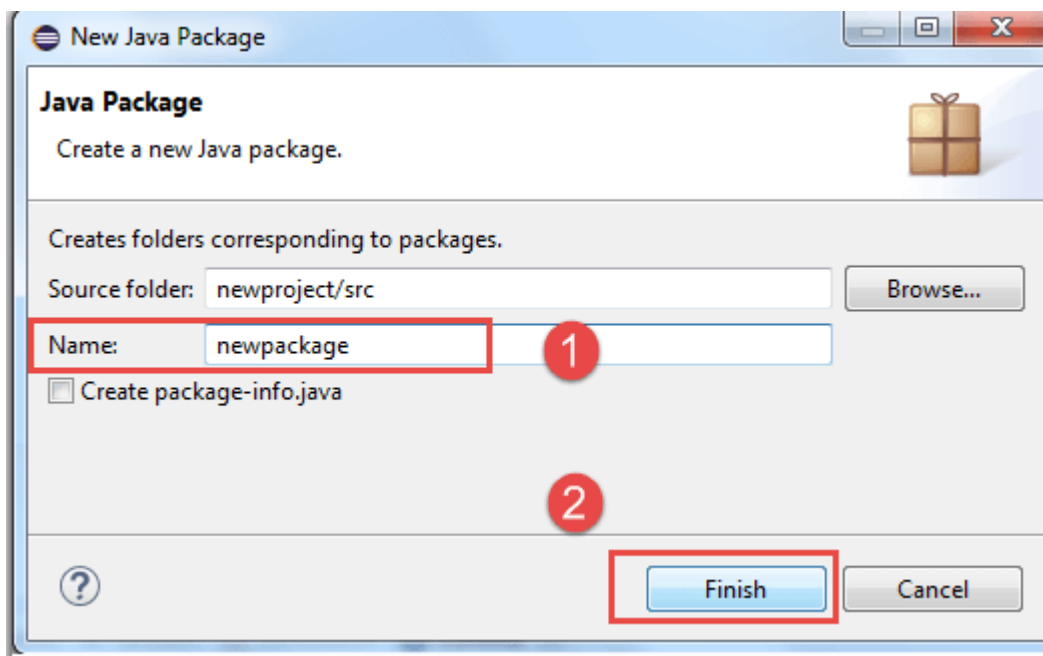
4. In this step,

1. Right-click on the newly created project and
2. Select New > Package, and name that package as "newpackage".

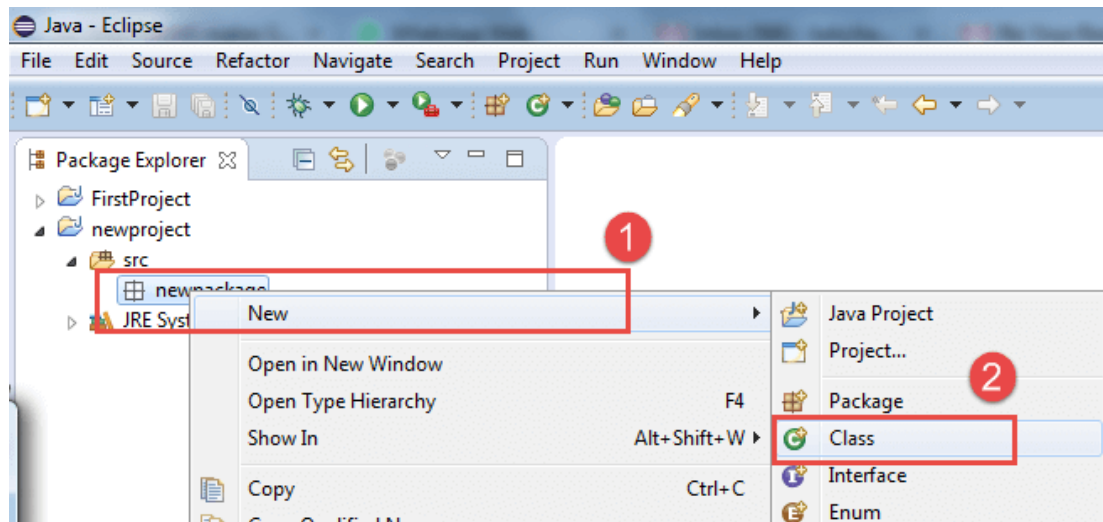


A pop-up window will open to name the package,

1. Enter the name of the package
2. Click on Finish button

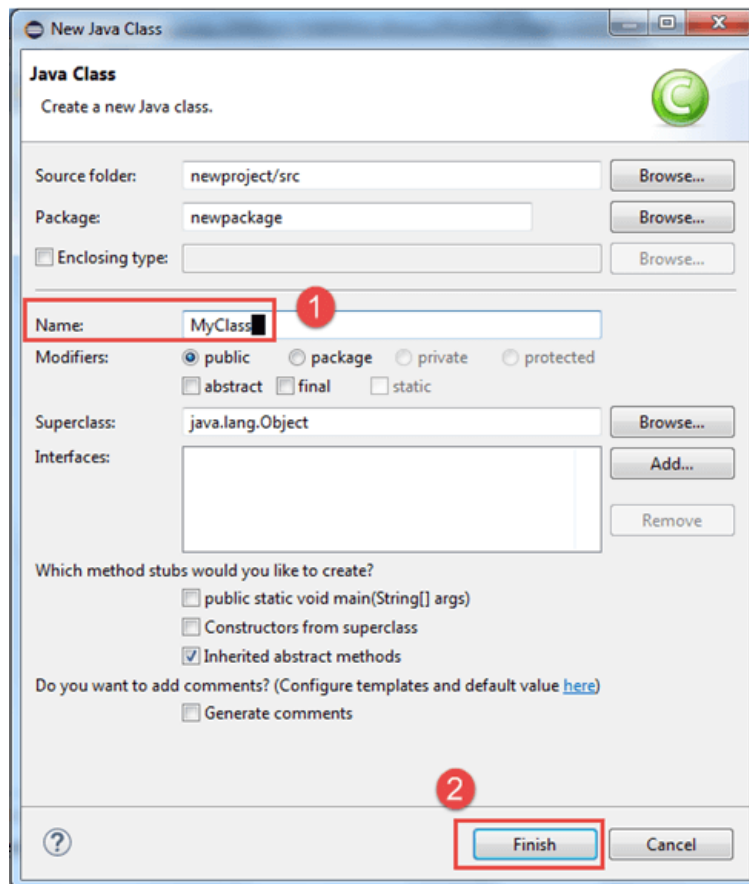


5. Create a new Java class under newpackage by right-clicking on it and then selecting- New > Class, and then name it as "MyClass". Your Eclipse IDE should look like the image below.

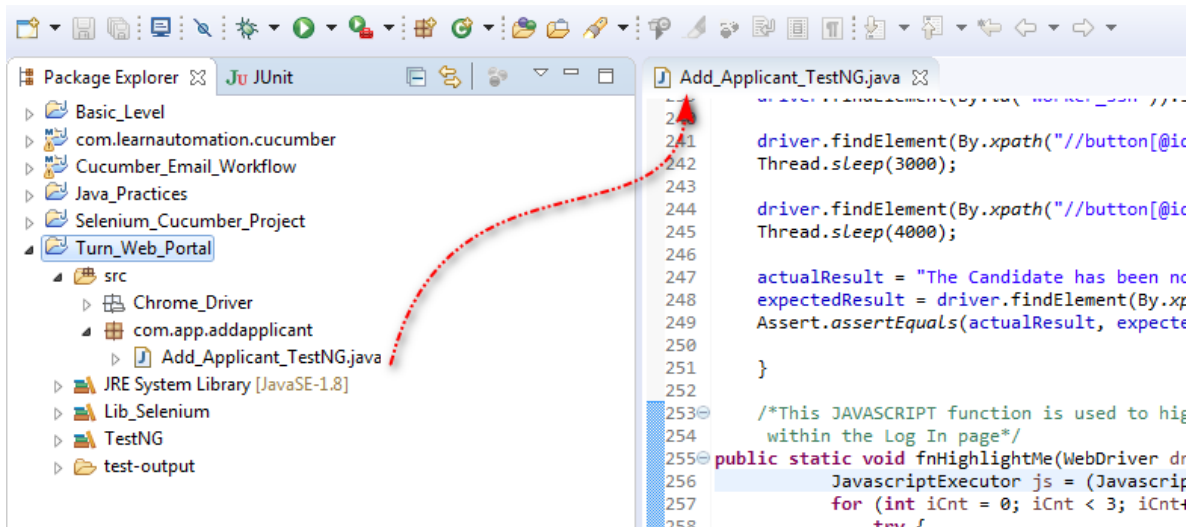


When you click on Class, a pop-up window will open, enter details as

1. Name of the class
2. Click on Finish button



This is how it looks like after creating class.



Step 5 - Download the Selenium Libraries for Java language from [here](#):

Selenium Client & WebDriver Language Bindings

In order to create scripts that interact with the Selenium Server (Selenium RC, Selenium Remote WebDriver) or create local Selenium WebDriver scripts, you need to make use of language-specific client drivers. These languages include both 1.x and 2.x style clients.

While language bindings for [other languages exist](#), these are the core ones that are supported by the main project hosted on google code.

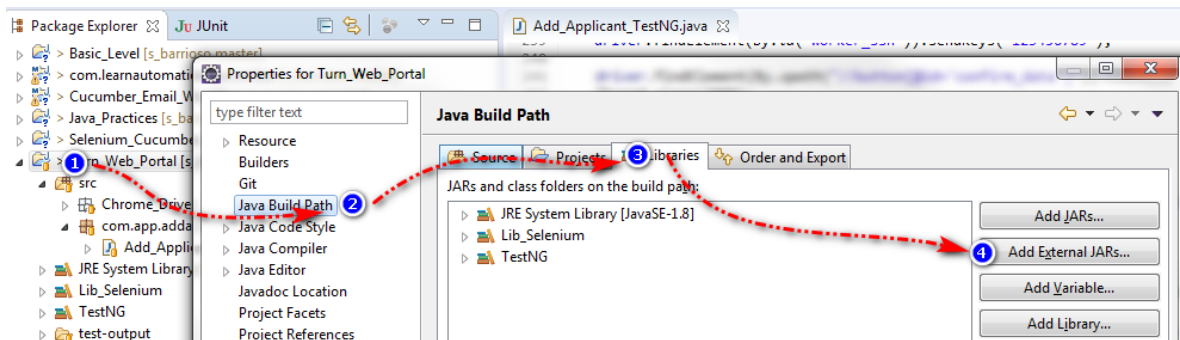
Language	Client Version	Release Date	Download	Change log	Javadoc
Java	3.6.0	2017-09-27	Download	Change log	Javadoc
C#	3.5.1	2017-08-15	Download	Change log	API docs
Ruby	3.5.1	2017-08-14	Download	Change log	API docs
Python	3.5.0	2017-08-10	Download	Change log	API docs
Javascript (Node)	3.5.0	2017-07-24	Download	Change log	API docs

- **Unzip the file downloaded.**

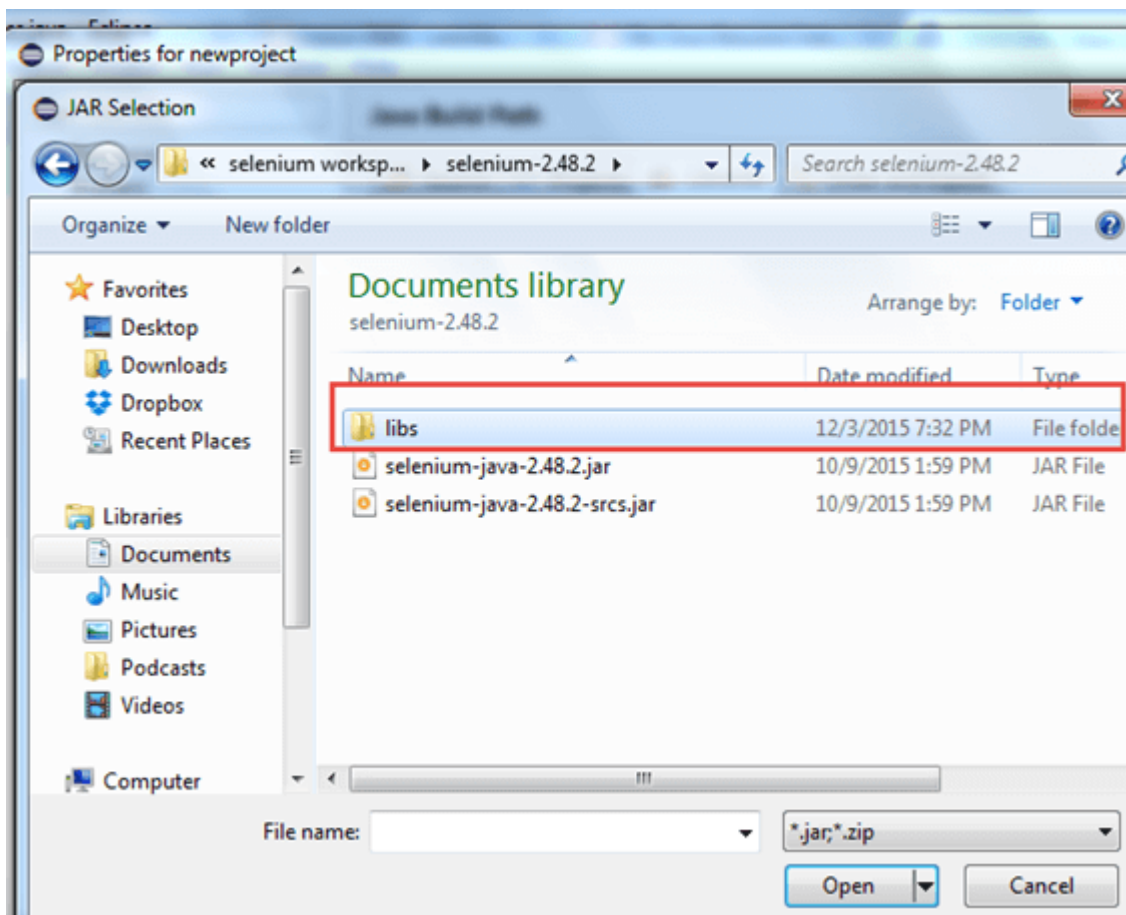
Now selenium WebDriver's into Java Build Path

In this step,

1. Right-click on "Turn_Web_Portal" project and select **Properties**.
2. On the Properties dialog, click on "Java Build Path".
3. Click on the **Libraries** tab, and then
4. Click on "Add External JARs.."



When you click on "Add External JARs.." It will open a pop-up window. Select the JAR files you want to add.



After selecting jar files, click on OK button.

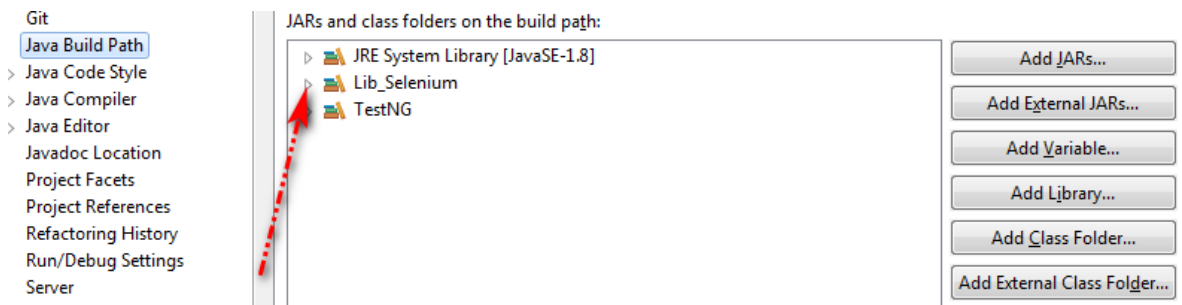
Select all files inside the lib folder.

Name	Type	Compressed size	Password ...	Size
byte-buddy-1.7.5	Executable Jar File	2,447 KB	No	
commons-codec-1.10	Executable Jar File	229 KB	No	
commons-exec-1.3	Executable Jar File	47 KB	No	
commons-logging-1.2	Executable Jar File	56 KB	No	
gson-2.8.0	Executable Jar File	204 KB	No	
guava-23.0	Executable Jar File	2,272 KB	No	
httpclient-4.5.3	Executable Jar File	669 KB	No	
httpcore-4.4.6	Executable Jar File	282 KB	No	
jna-4.1.0	Executable Jar File	880 KB	No	
jna-platform-4.1.0	Executable Jar File	381 KB	No	

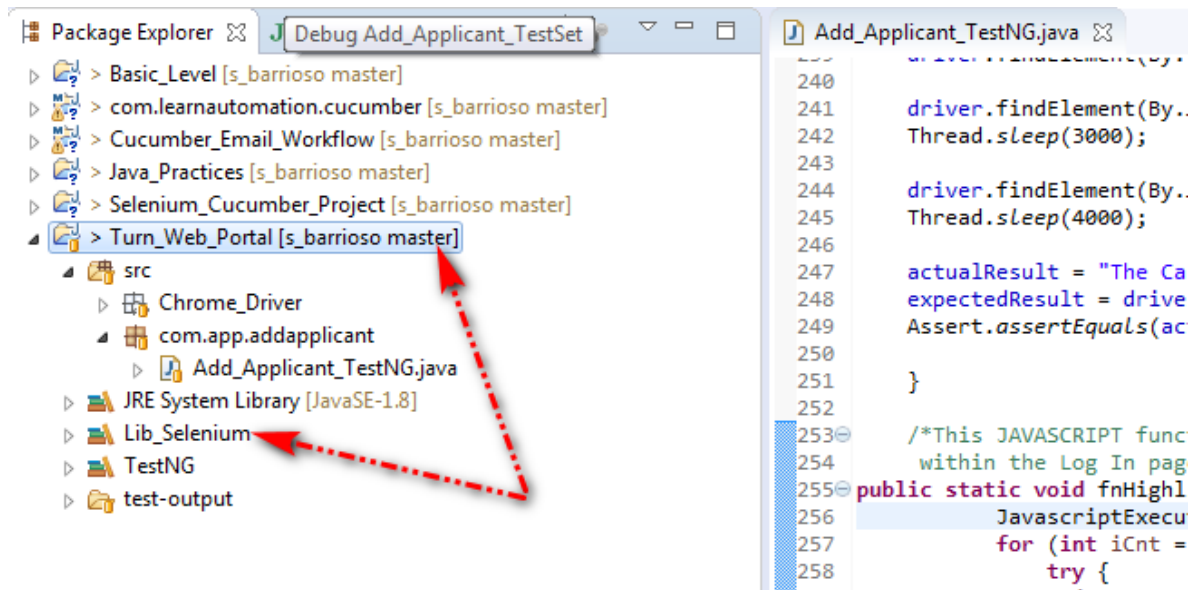
Select files outside lib folder

Name	Type	Compressed size	Password ...
libs	File folder		
CHANGELOG	File	39 KB	No
client-combined-3.6.0	Executable Jar File	1,314 KB	No
client-combined-3.6.0-sources	Executable Jar File	420 KB	No
LICENSE	File	4 KB	No
NOTICE	File	1 KB	No

Once done, click "Apply and Close" button

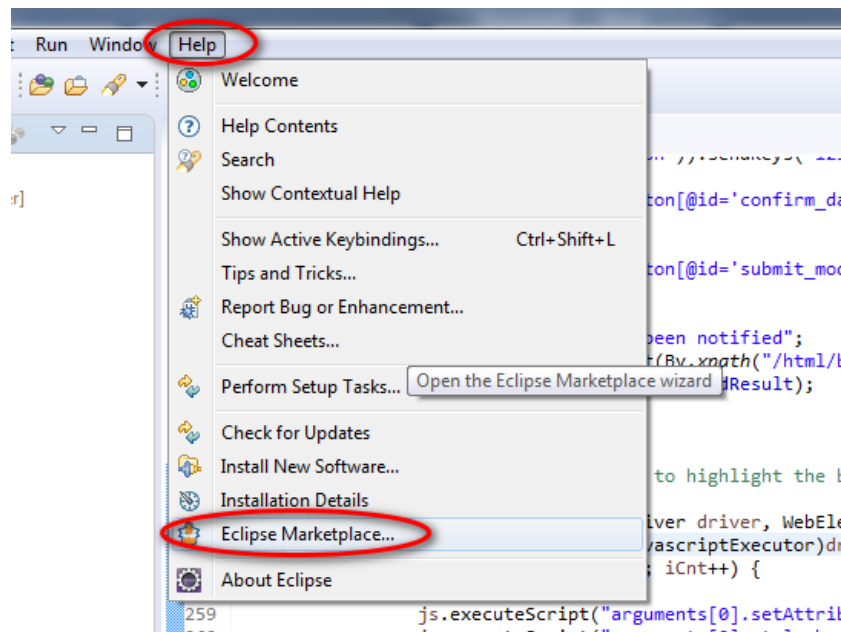


6. Add all the JAR files inside and outside the "libs" folder. Your Properties dialog should now look similar to the image below.

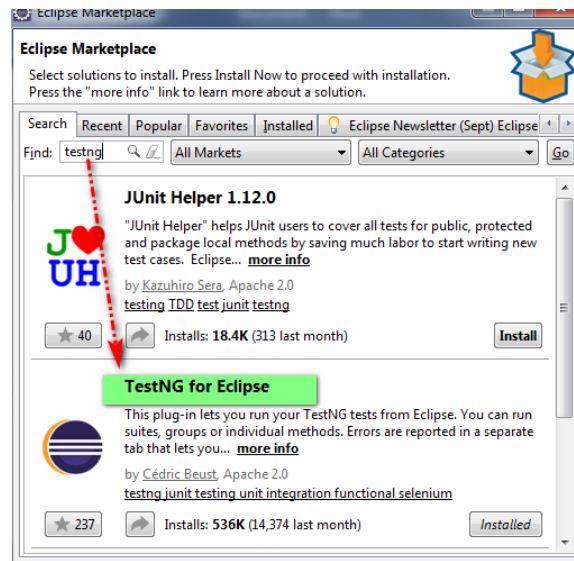


Step 6 - Installing TestNG for Eclipse

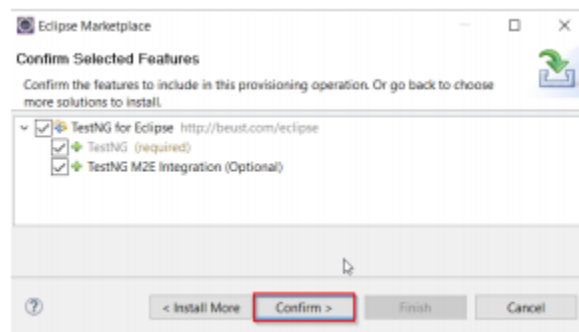
1. On the menu bar, click on "Help".
2. Choose the "Eclipse Marketplace" option.



3. Type "TestNG".
4. Click on Find Button.
5. Click on "Install" button

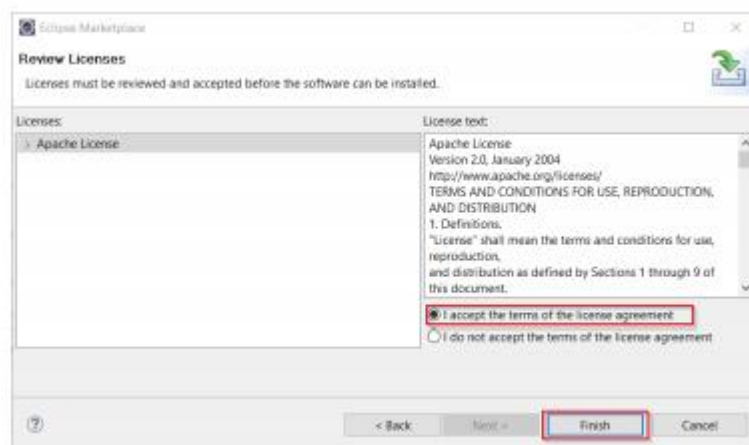


6. Click on “Confirm” button.



7. Accept the terms.

8. Click on “Finish” button.



9. Installations starts and it is completed after few seconds.

To verify if TestNG was successfully installed.

1. Right-click on your test class.
2. Select "Run As..."
3. Select "TestNG Test".

