

SELENIUM TEST CASE IN ECLIPSE

This documentation is divided into three parts:

- 1. Java JDK installation
- 2. Eclipse installation
- 3. Selenium Test Case

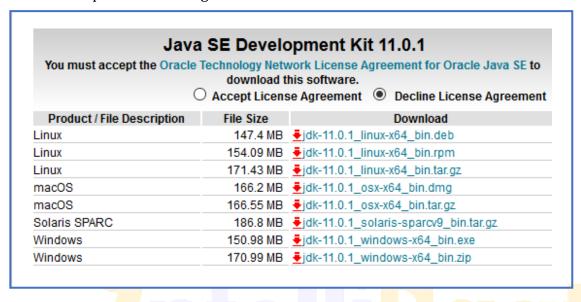
1. Install Java JDK

Step 1: Download java jdk.

https://www.oracle.com/technetwork/java/javase/downloads/index.html ORACLE Search Q Sign In 🚇 Contact 🞧 Country/Region Java SDKs and Tools Overview Downloads Documentation Community Technologies Training Java SE Java SE Java EE Java SE Downloads Java EE and Glassfish Java ME Java ME Java SE Subscription Java Embedded Java Card Java Card ■ NetBeans IDE Java TV Java Mission Control Community Java Resources Java APIs Java Platform (JDK) 11 E Technical Articles Java Platform, Standard Edition Demos and Videos Java SE 11.0.1(LTS)
Java SE 11.0.1 is the latest release for the Java SE 11 Platforms <u> Forums</u> Java Magazine Developer Training · Installation Instructions Oracle JDK <u>▼ Tutorials</u> DOWNLOAD . · Release Notes Java.com · Oracle JDK License · Java SE Licensing Information User Manual · Includes Third Party Licenses · Certified System Configurations Readme



Then click on the oracle Jdk Download button, you will land on a page as shown below. Accept the License Agreement. Download the .exe file.

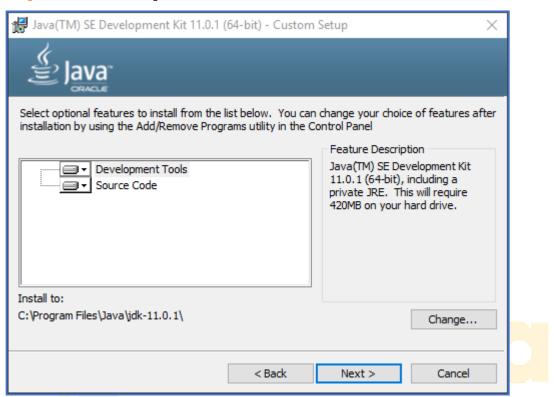


Step 2: Open that downloaded execution file then click on Next.

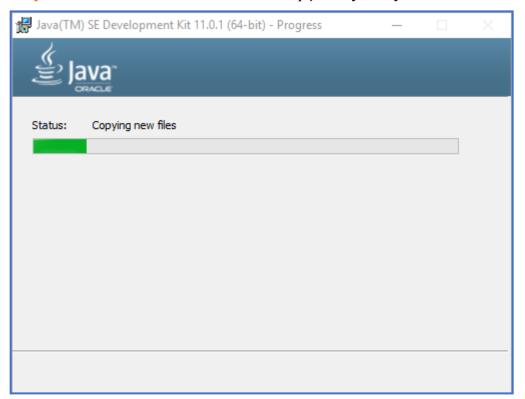




Step 3: Select Developers Tools and click Next.



Step 4: It will take a few moments to set up jdk in your system



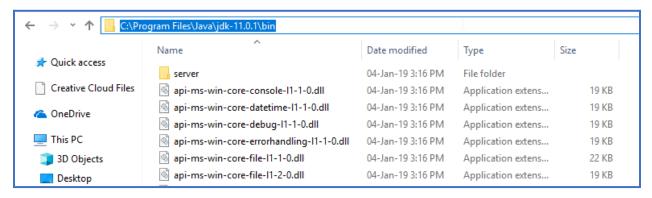


Step 5: Click on close to complete the set up.



Before moving ahead, we need to add the environment variables to the path as follows.

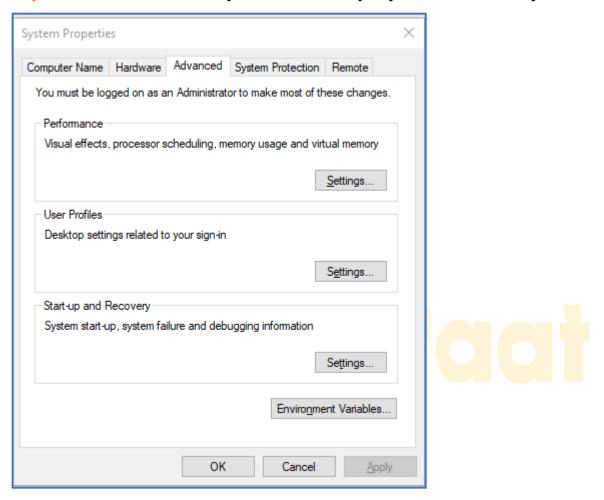
Step 5: Go to local C drive Program Files pjava pjdk-11.0.1 bin



Step 6: Copy the path as shown above.

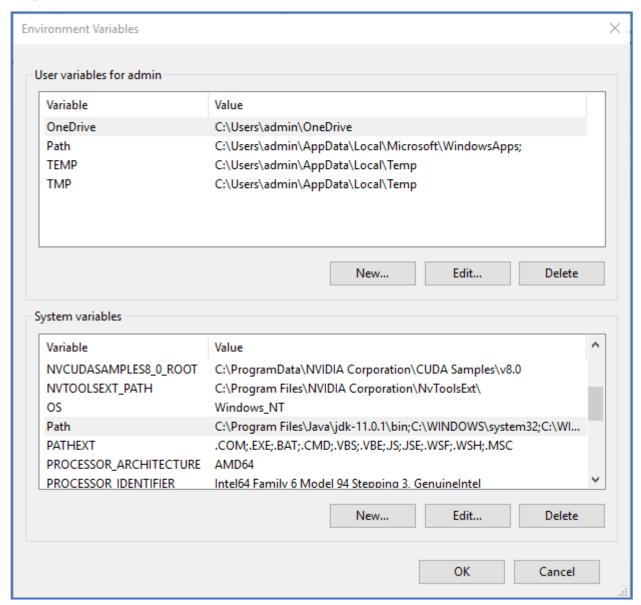


Step 7: Go to Control Panel 2 System and Security 2 System 2 Advanced System Settings



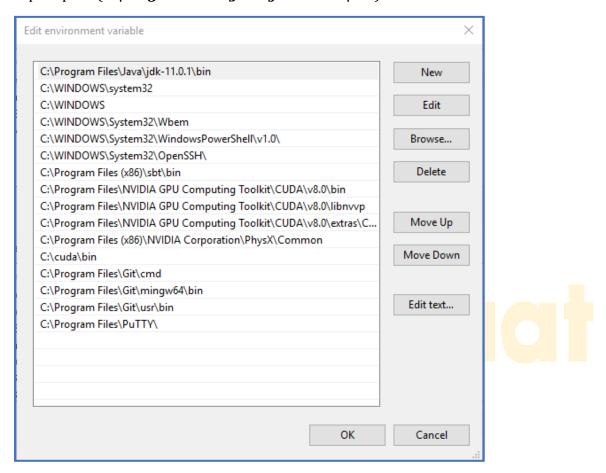


Step 8: Click on **Environment Variables.**





Step 9: Click on Path in the System Variables section. And then paste the previously copied path (*C:\Program Files\Java\jdk-11.0.1\bin*) as shown below.



Step 10: Now open **command prompt** and run the following command.

```
java -version

Command Prompt

Microsoft Windows [Version 10.0.17134.472]

(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\INTELLIPAAT>java -version
java version "11.0.1" 2018-10-16 LTS

Java(TM) SE Runtime Environment 18.9 (build 11.0.1+13-LTS)

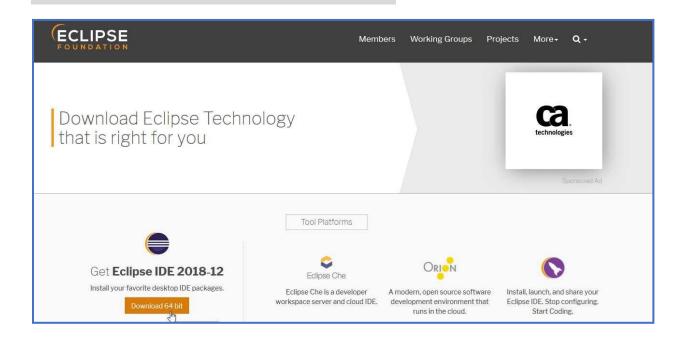
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.1+13-LTS, mixed mode)
```



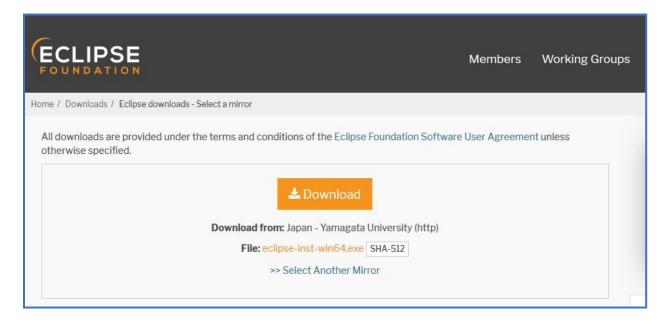
2. Eclipse Installation

Step 1: Go to the eclipse download page.

https://www.eclipse.org/downloads/

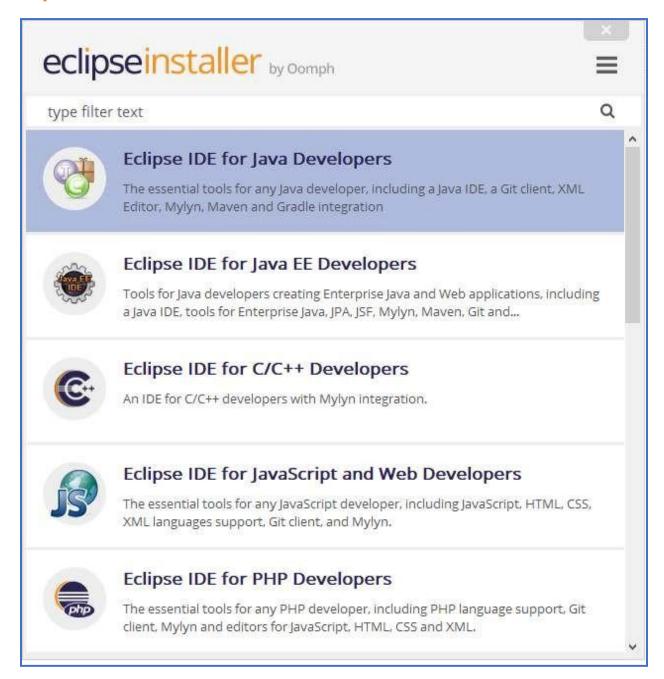


Step 2: Click on the download 64-bit link. You should land on a page as shown.



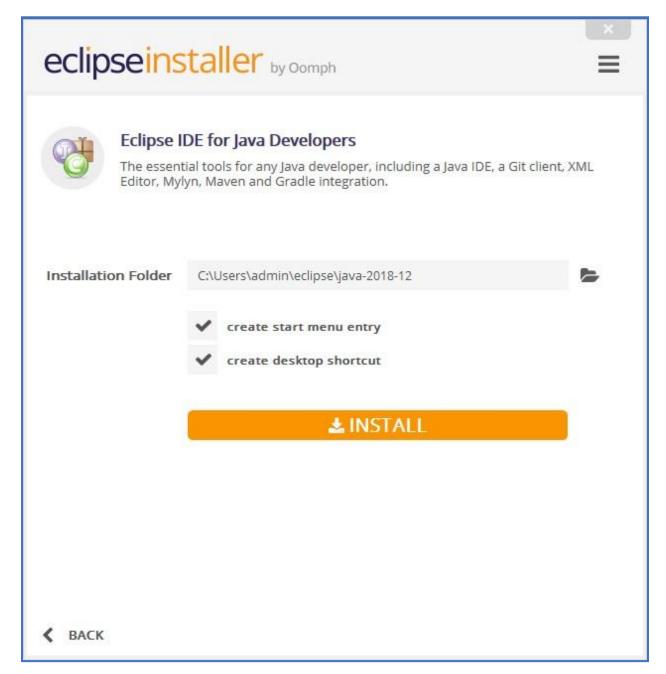


Step 3: Once the download is finished launch the installer.





Step 4: Click on **Eclipse IDE for Java Developers.**



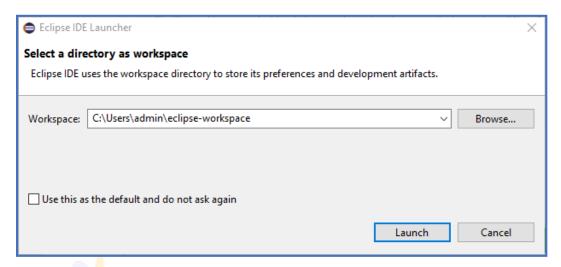


Step 5: Once done, click on LAUNCH.





Step 6: Click on Launch.

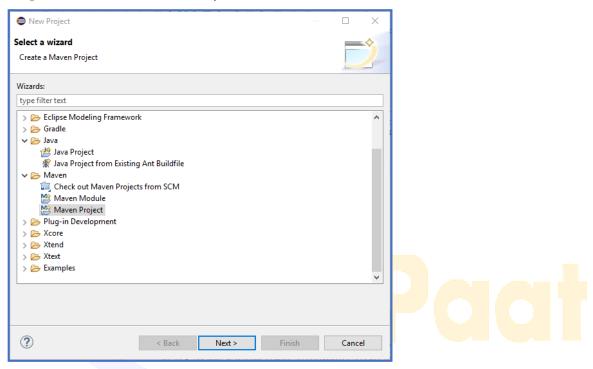


Now that we have successfully set up Java and Eclipse in our environment, we will be Performing a Selenium Test Case using Maven.

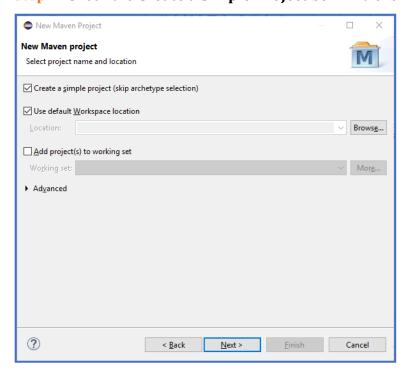


3. Selenium Test Case:

Step 1: Start a new Maven Project.

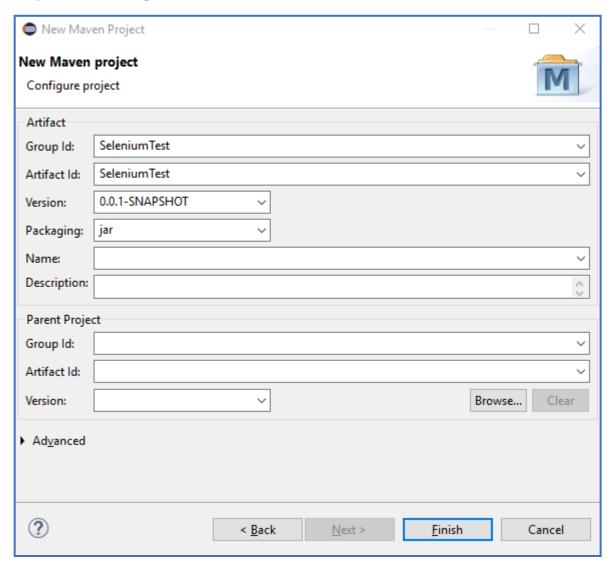


Step 2: Check the Create a Simple Project box. And click Next.

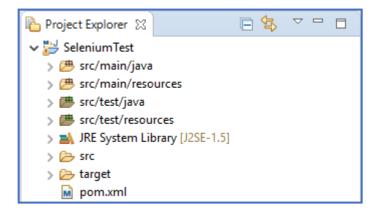




Step 3: Enter Group Id and Artifact Id. And click on Finish.

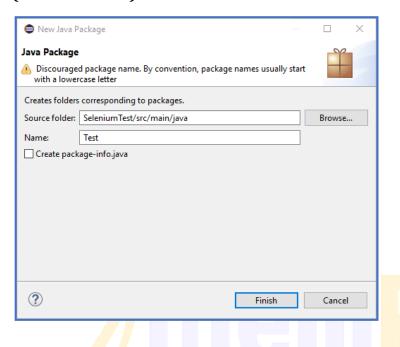


Step 4: Your project should appear in the **Project Explorer** section as shown below.

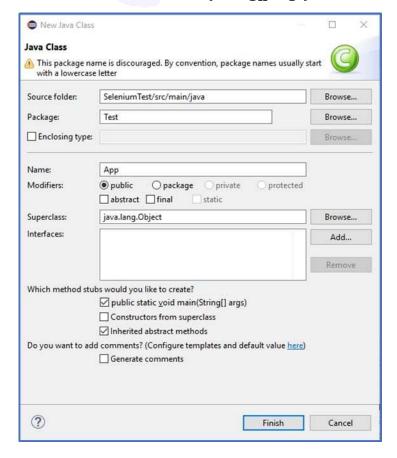




Step 5: Right click on **src/main/java** and create a **java package.** Enter a **Package Name (Test** in this case). Then click on **Finish.**



Step 6: Now create a Java Class by right clicking on test package, name the class as App. Check the Public static void main(String[] args) box. And click on Finish.

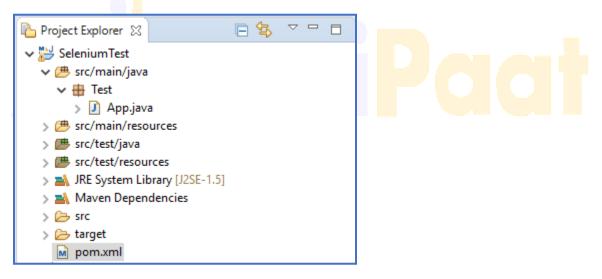




Step 7: Now, your eclipse workspace should look like this.

```
1 package Test;
2
3 public class App {
4
5⊖ public static void main(String[] args) {
6  // TODO Auto-generated method stub
7
8 }
9
10 }
```

Before moving on to the scripting part we need to **configure the Maven**Dependencies to the Pom.xml file under target folder.



Before adding the dependencies, the Pom.xml file looks like this:



Step 8: Now go ahead and add the below dependencies to the **pom.xml** file.

```
<dependencies>
<!-- Selenium -->
<dependency>
  <groupId>org.seleniumhq.selenium
 <artifactId>selenium-java</artifactId>
  <version>3.4.0</version>
</dependency>
<!-- TestNG -->
<dependency>
  <groupId>org.testng</groupId>
 <artifactId>testng</artifactId>
 <version>6.8</version>
  <scope>test</scope>
</dependency>
<!-- Selenium Server-->
<dependency>
  <groupId>org.seleniumhq.selenium
  <artifactId>selenium-server</artifactId>
  <version>3.141.59</version>
 </dependency>
</dependencies>
```

Add the dependencies in between **project> tags.**



Refer to the below given image.

```
<version>0.0.1-SNAPSHOT</version>
     <dependencies>
6⊖
7
    <!-- Selenium -->
     <dependency>
8<sup>©</sup>
9
      <groupId>org.seleniumhq.selenium</groupId>
10
      <artifactId>selenium-java</artifactId>
      <version>3.4.0</version>
     </dependency>
13
    <!-- TestNG -->
     <dependency>
14⊝
     <groupId>org.testng</groupId>
15
16
      <artifactId>testng</artifactId>
17
    <version>6.8</version>
18
      <scope>test</scope>
     </dependency>
19
      <dependency>
20⊝
21
       <groupId>org.seleniumhq.selenium</groupId>
22
        <artifactId>selenium-server</artifactId>
        <version>3.141.59
23
       </dependency>
     </dependencies>
   </project>
```

Step 9: Now, add the below given script to the main() function to the App.java file.

```
System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chromedriver.exe");
WebDriver driver = new ChromeDriver();
driver.get("http://www.gmail.com/");
System.out.println("Test Successful");
```

Step 10: To make this run properly we need to import **org.openqa.selenium.WebDriver** and **org.openqa.selenium.chrome.ChromeDriver**

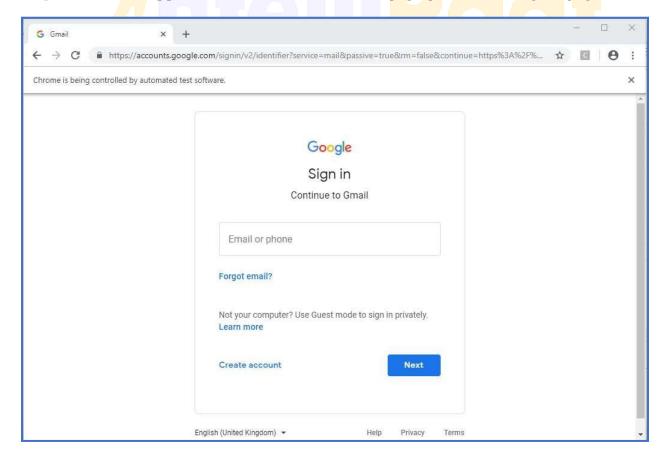
```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
```



It should look like this.

```
package Test;
 3 import org.openqa.selenium.WebDriver;
 4 import org.openqa.selenium.chrome.ChromeDriver;
 6
   public class App {
 7
       public static void main(String[] args) {
 80
           System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\driver\\chrome
 9
           WebDriver driver = new ChromeDriver();
10
11
           driver.get("http://www.gmail.com/");
12
           System.out.println("Test Successful");
13
       }
14
15 }
16
```

Step 11: Now run App. Chrome browser window will pop up with Gmail sign in page.





Step 12: Go to Eclipse again and see the console. You should see the Test Successful message appearing in there.

