



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Summer 21-22

Software Quality and Testing

Sec: **A**

Submitted

By

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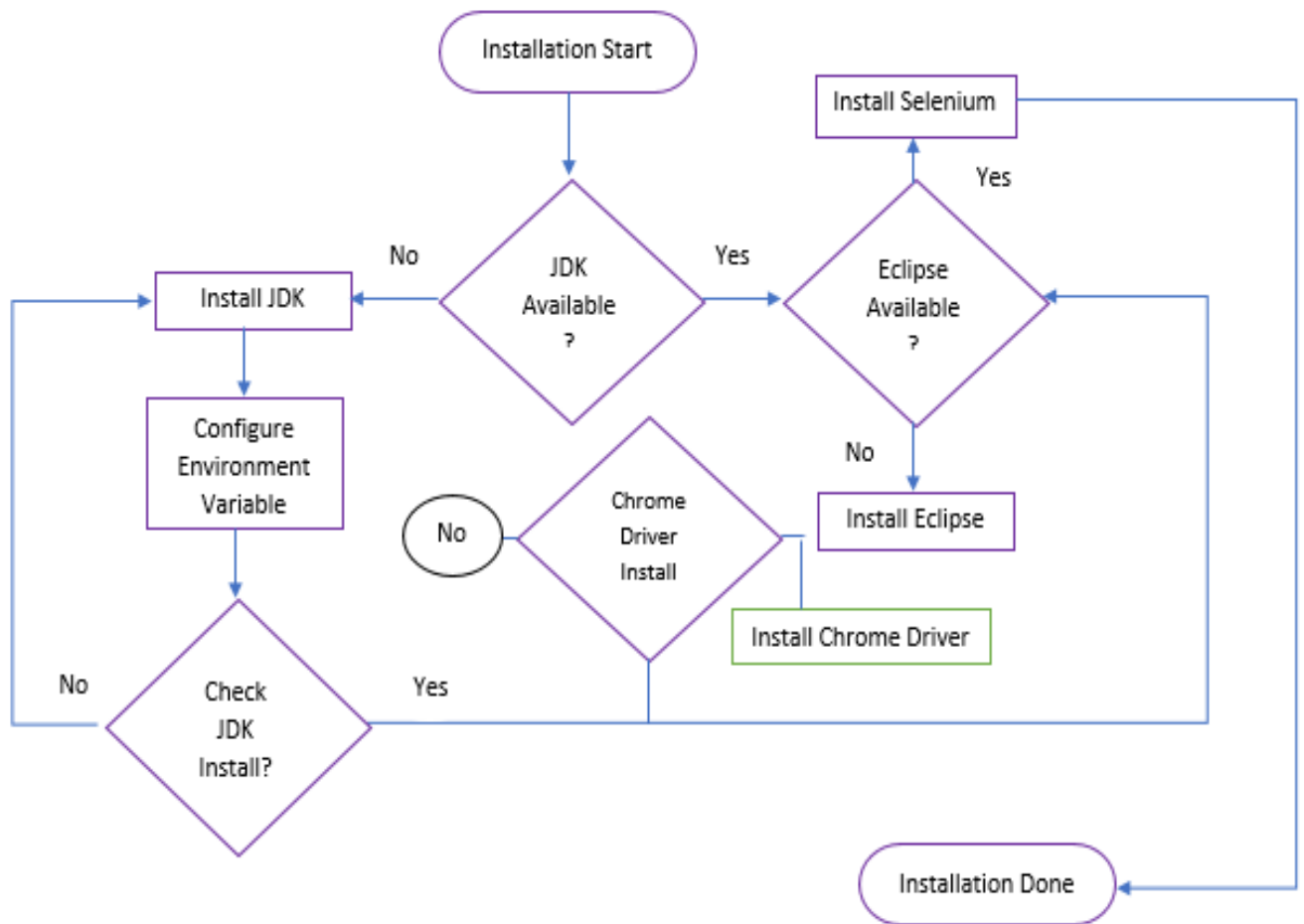
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Flowchart of Installation:

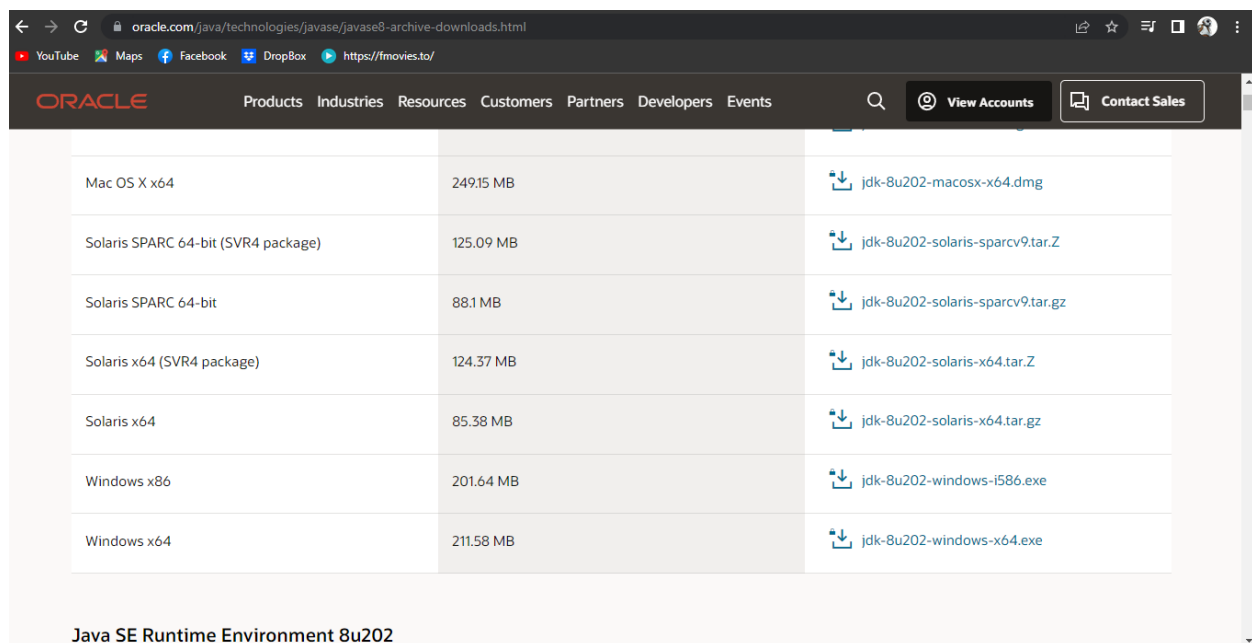


Project Details: Jolly Roger is a restaurant where people can find any item from breakfast to dinner, with dessert item and various kind of drinks also. There is login form, Search option, Food price, Drinks price, Food quantity, Food size, Food Picture all are those given. Now we have to test this Software by Selenium. As a software quality tester here is everything details of installation of testing software is given below.

Introduction: For install Selenium in our system, first, we have to install JAVA on our system and followed by Eclipse installation and finally we have to install and configure selenium on our system. For comprised of three steps first one we have to install JDK that is JAVA Development Kit and then configure our environment variables and finally if we want we can install JRE that is JAVA Runtime Environment on our system.

So, Now we are going to install JDK

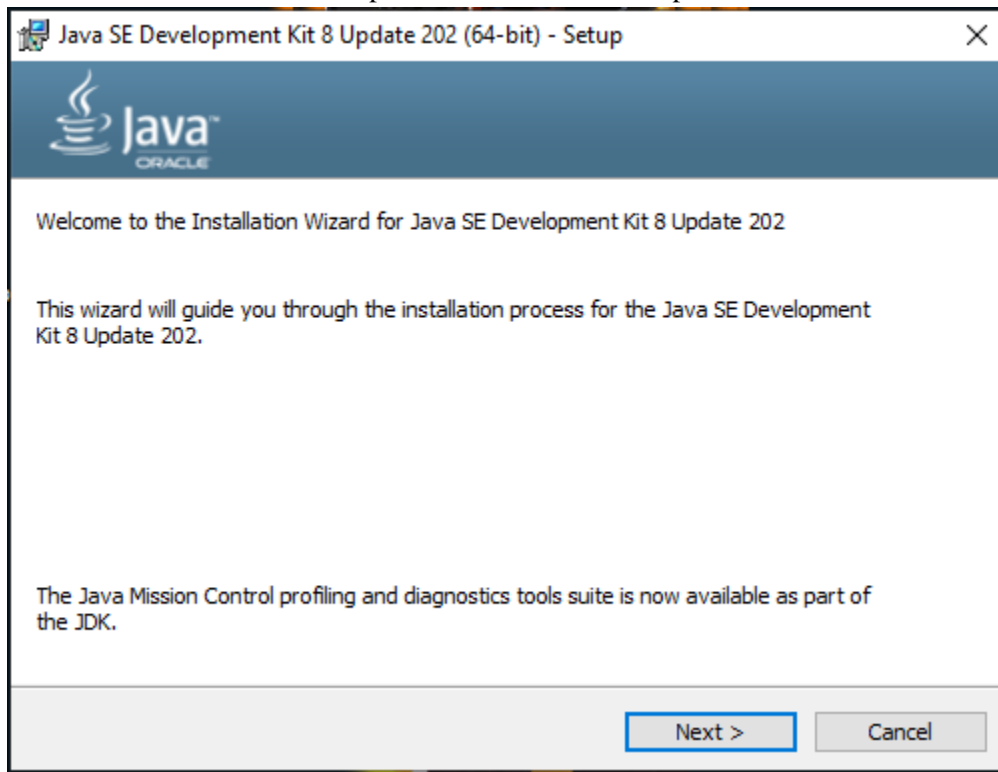
JDK Installation: First, we have to go to Oracle.com website and download JDK on our PC.



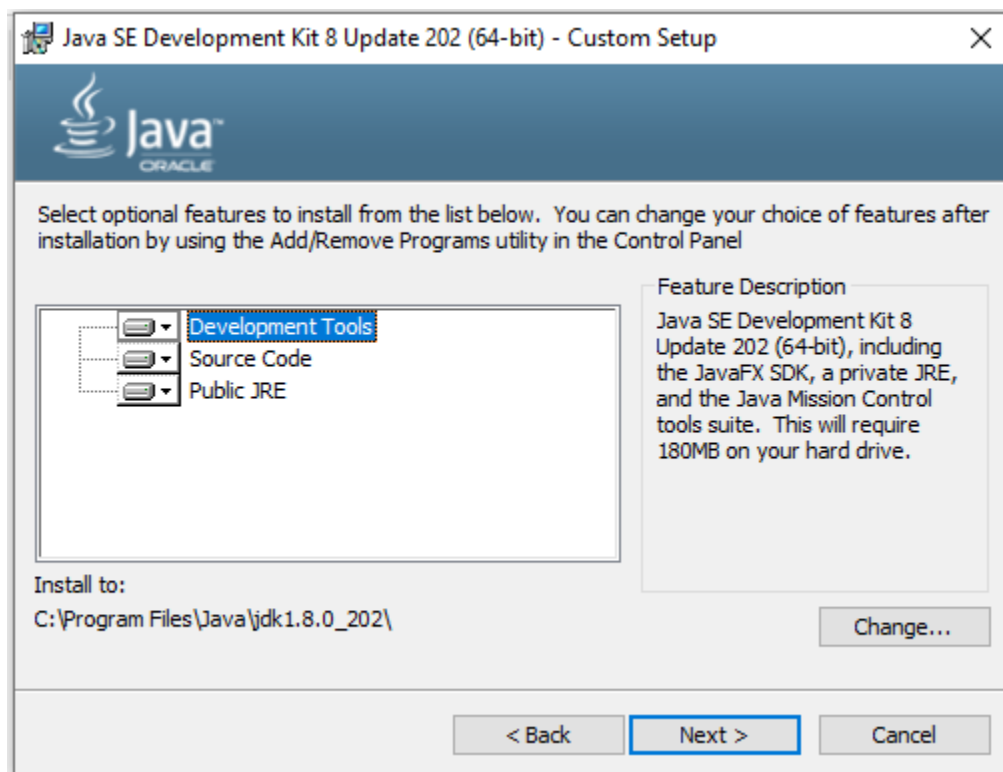
Operating System	Size	Download Link
Mac OS X x64	249.15 MB	jdk-8u202-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	125.09 MB	jdk-8u202-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	88.1 MB	jdk-8u202-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	124.37 MB	jdk-8u202-solaris-x64.tar.Z
Solaris x64	85.38 MB	jdk-8u202-solaris-x64.tar.gz
Windows x86	201.64 MB	jdk-8u202-windows-i586.exe
Windows x64	211.58 MB	jdk-8u202-windows-x64.exe

Java SE Runtime Environment 8u202

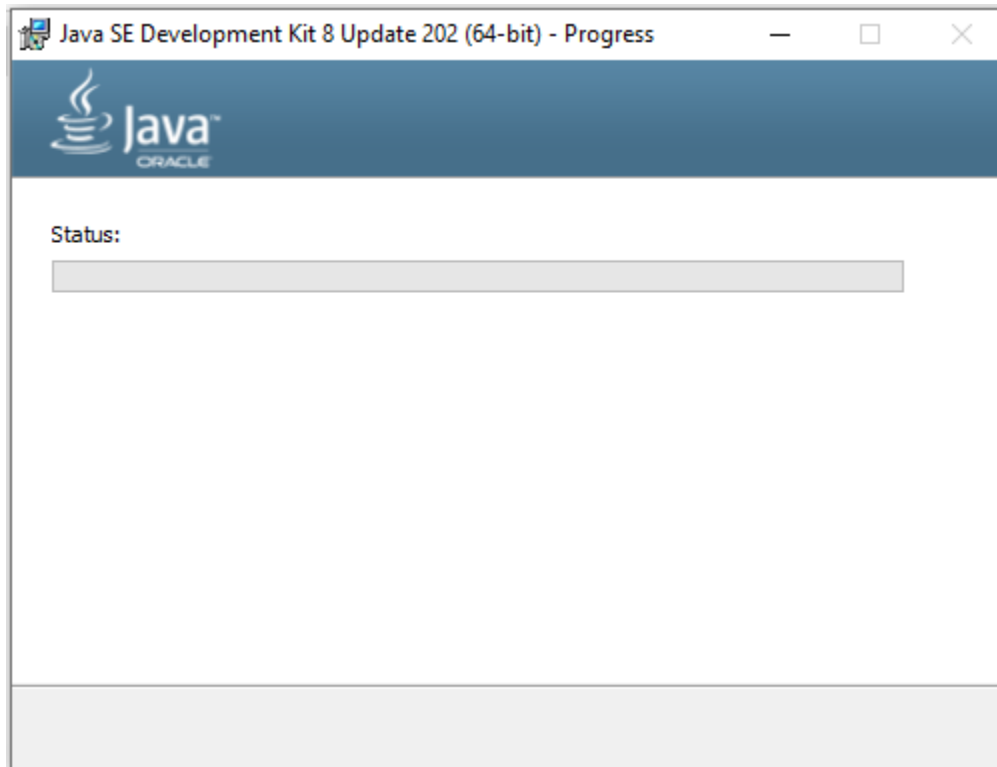
After download JDK we will open it and click on Next option



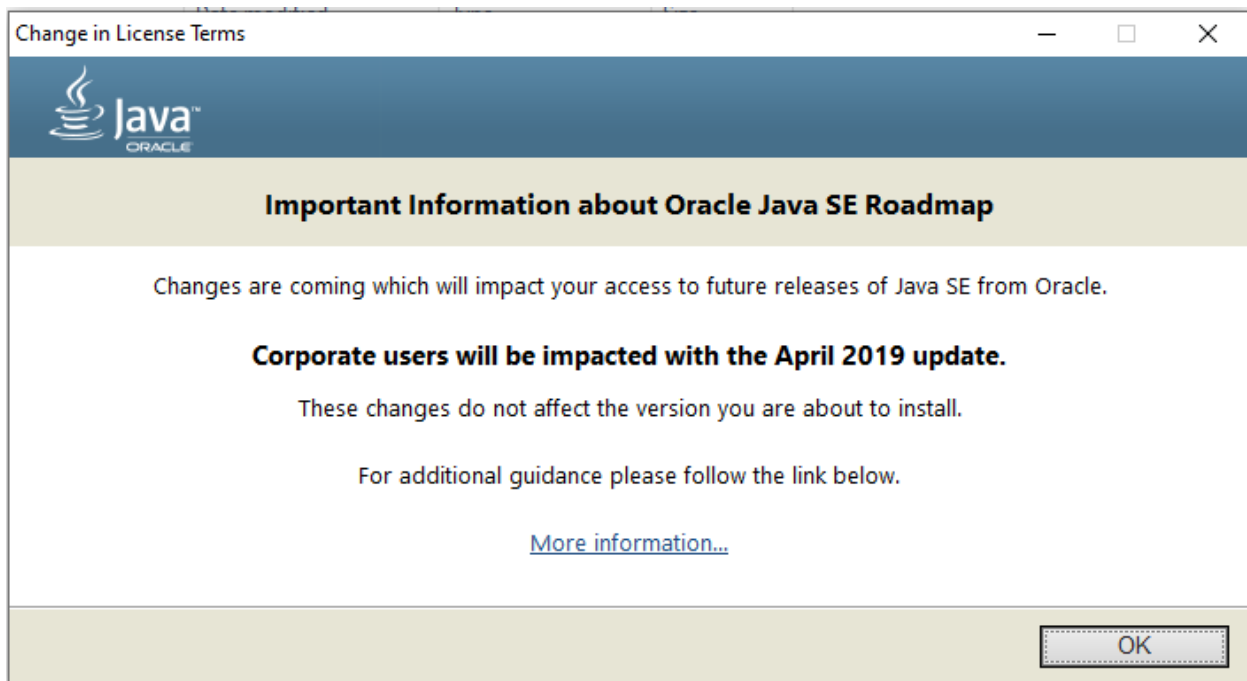
After press on Next we will get this and again press Next option



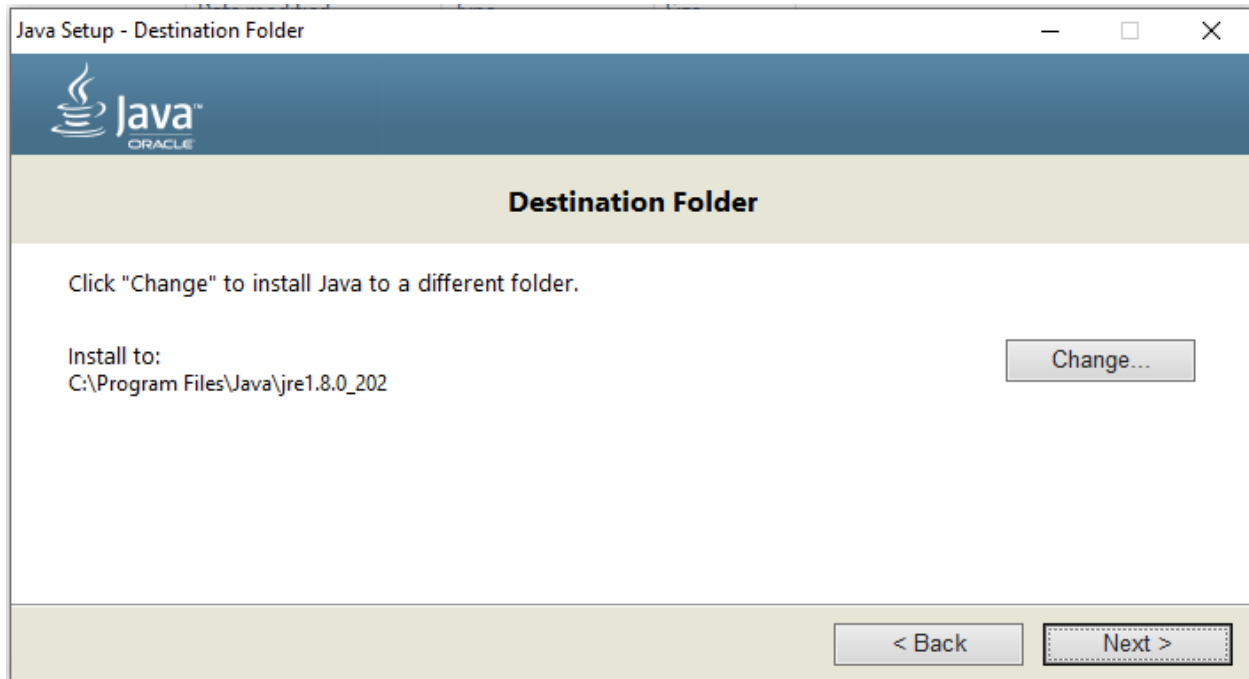
Now it will started downloading Status of JDK



After that we will get this page and have to press on OK option



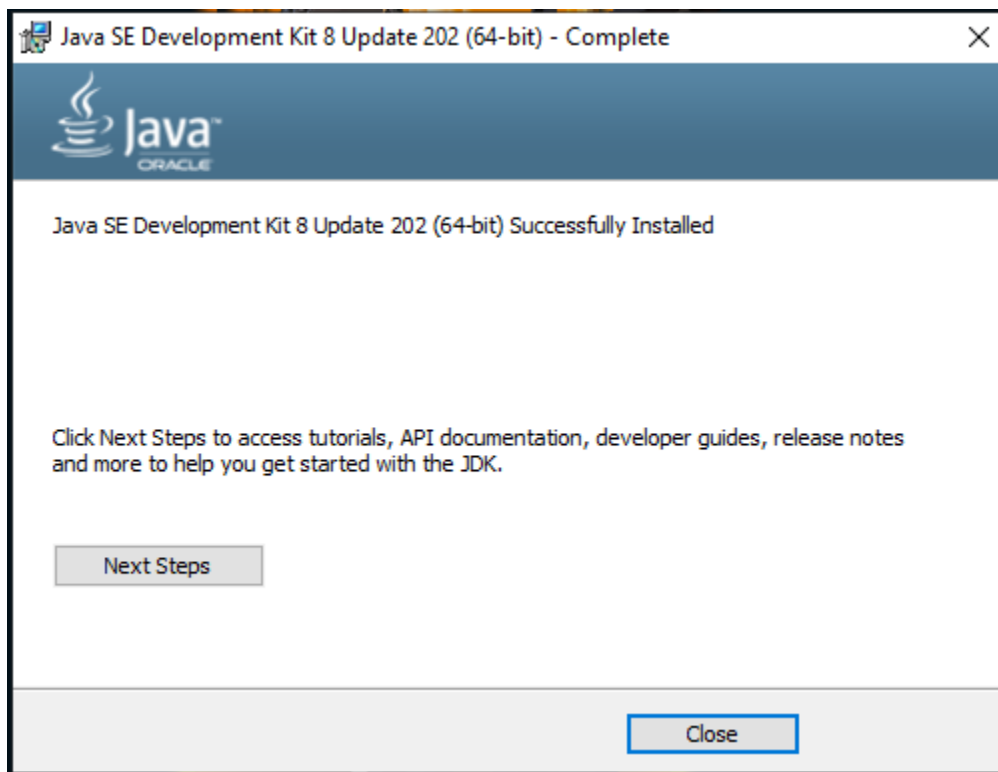
Now we will get this page and we have to press Next which indicates JDK path folder



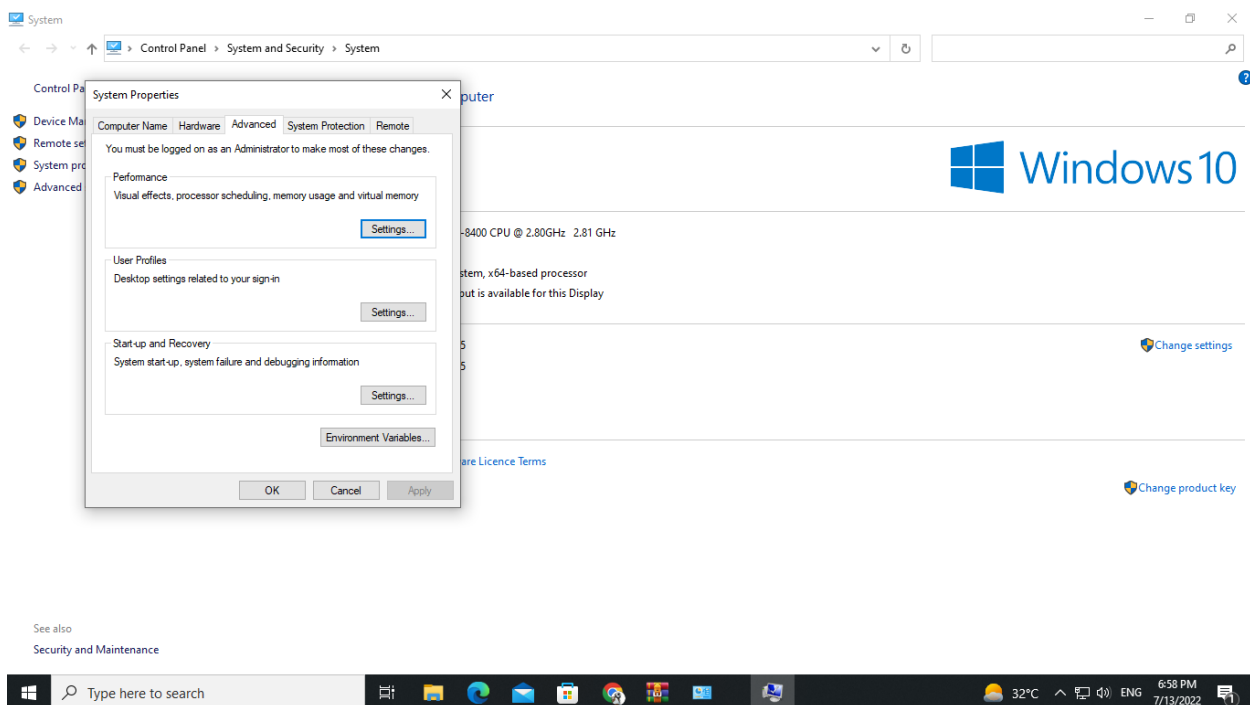
Finally, now JDK is installing



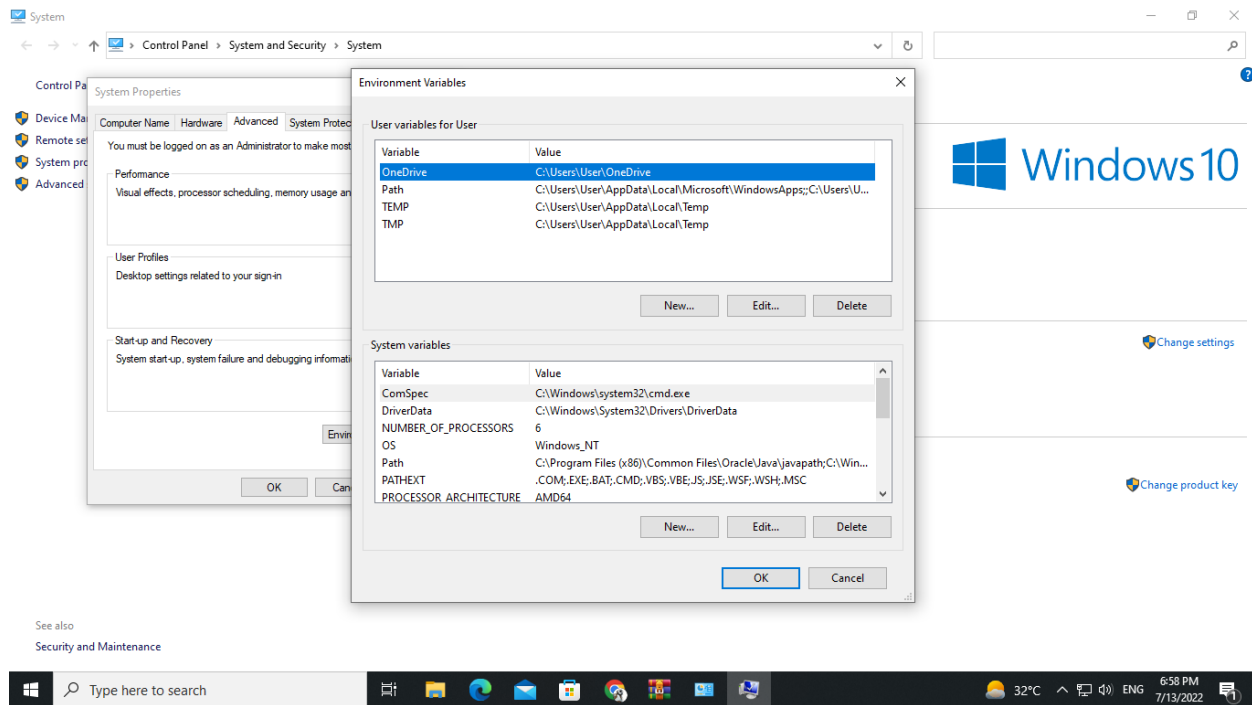
After completing install JDK press Close option



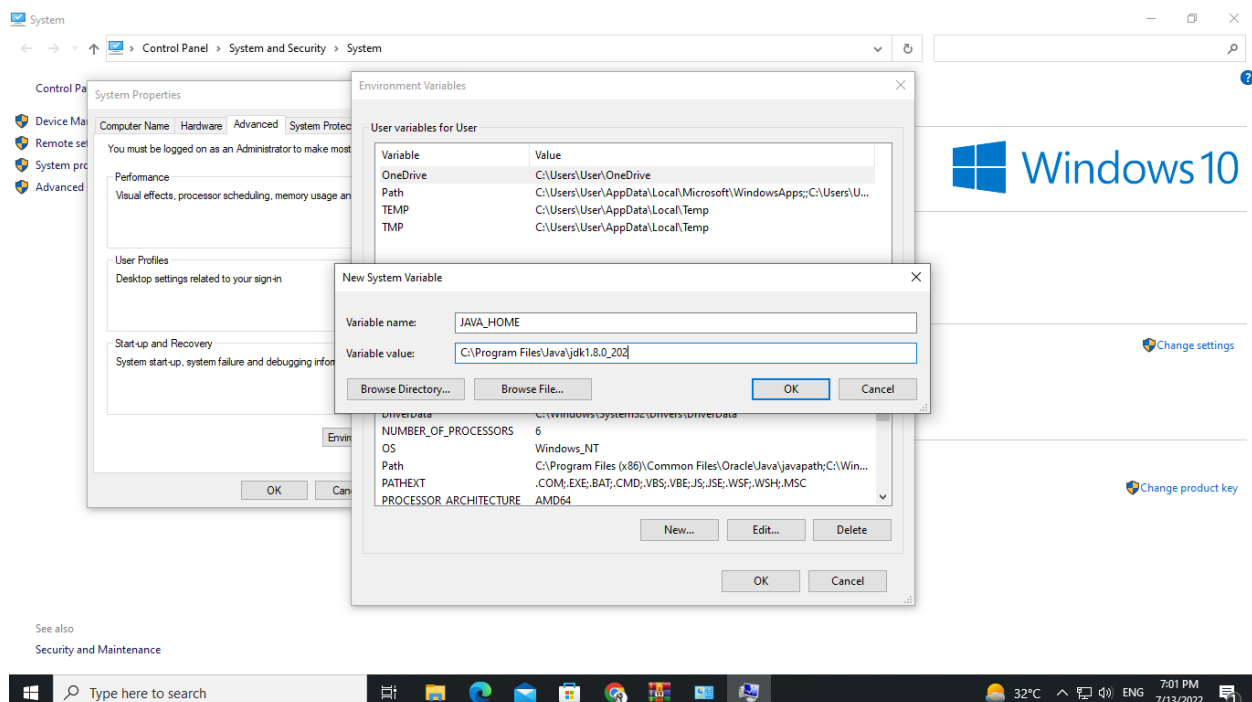
Now we have to go to our PC properties and then Advance System Setting option



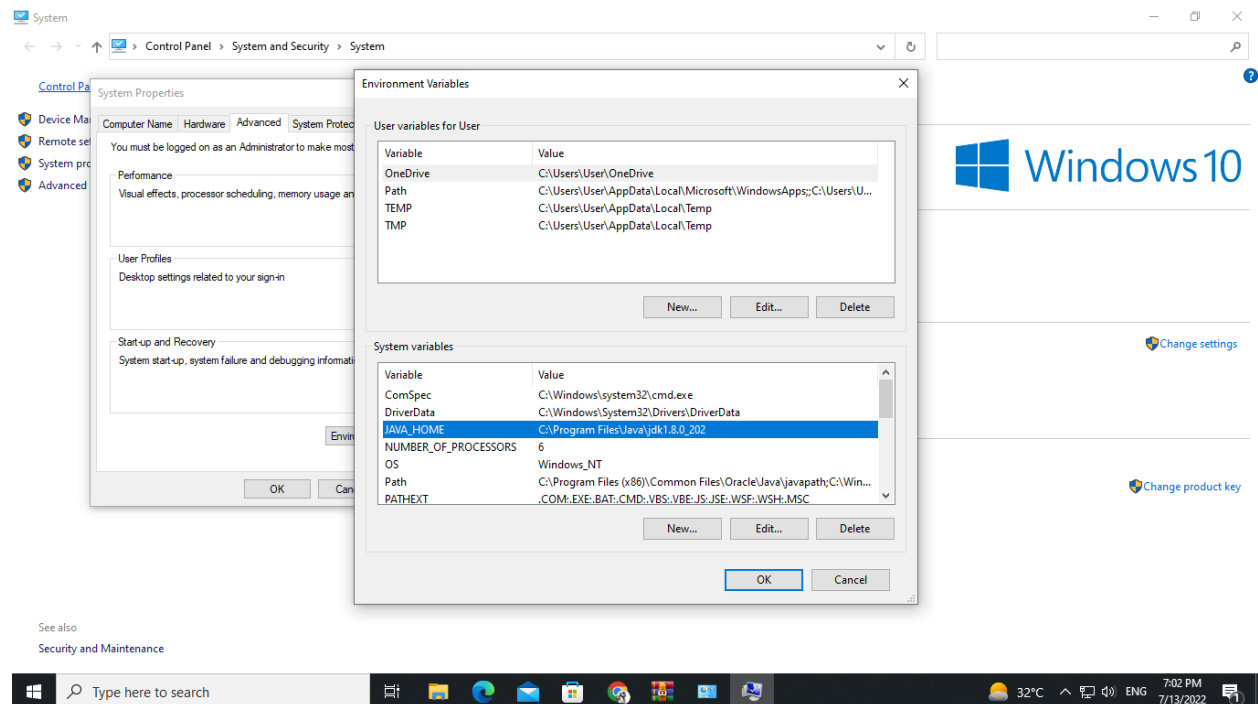
After that we have to press Environment Variable option and choose New option of system Variable option's



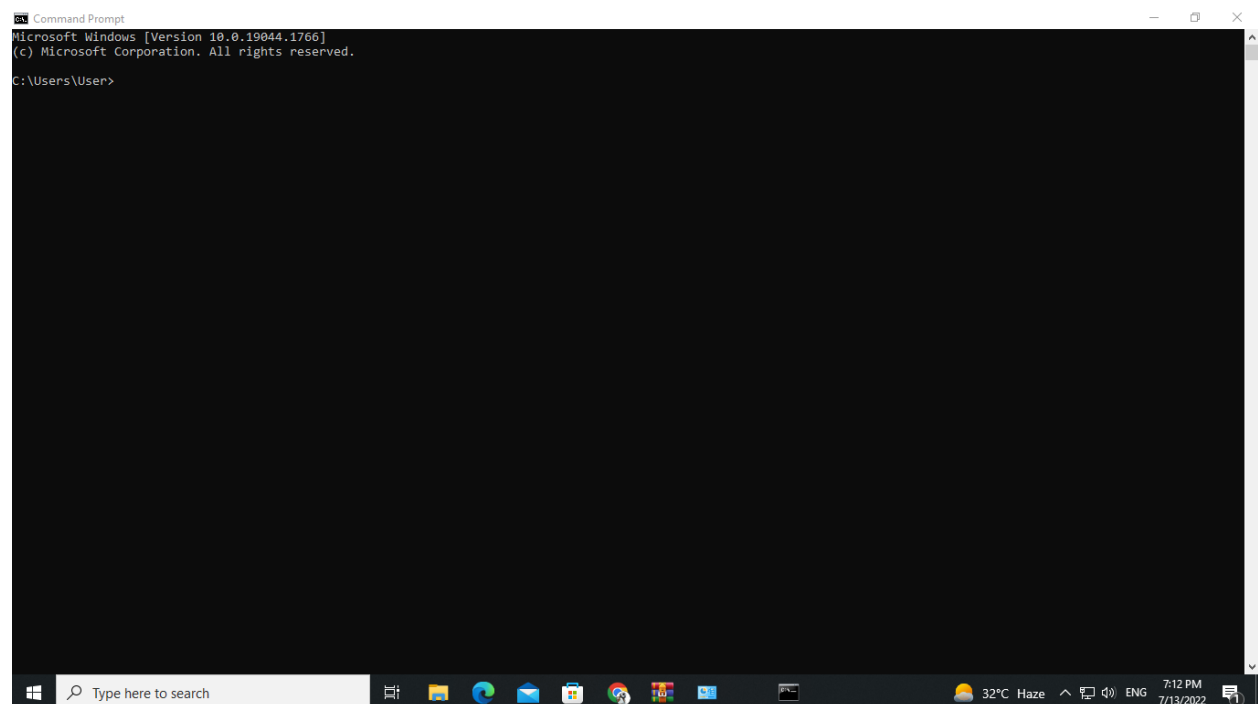
Then we will get this page and we have to write anything in name like we have wrote “JAVA_HOME” and choose the variable value as JDK installation path on C drive



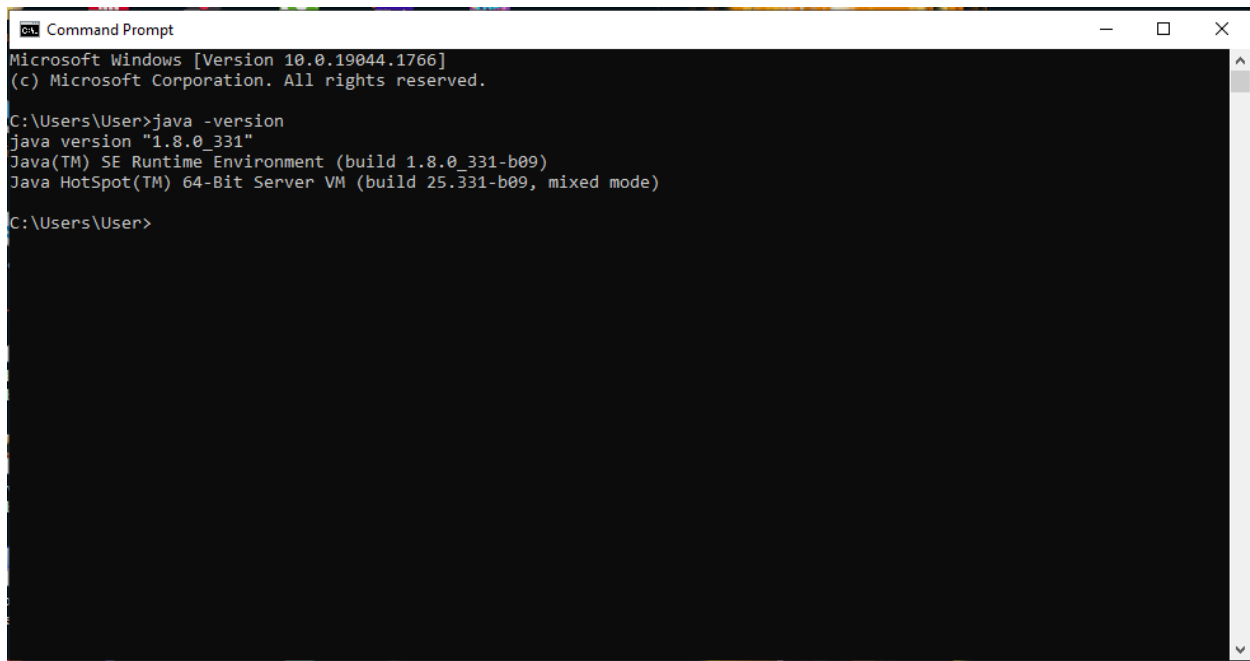
Press Ok



Now we have to run Command Prompt App by searching from windows application list



Type “java –version” and press Enter to check that our JDK installation has been done successfully.



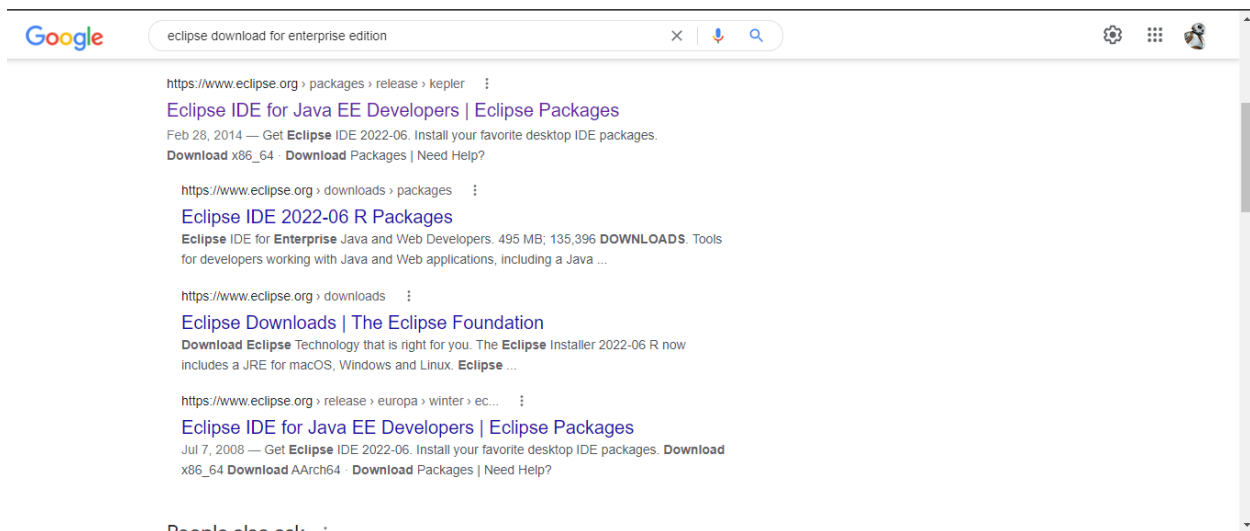
```
Command Prompt
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>java -version
java version "1.8.0_331"
Java(TM) SE Runtime Environment (build 1.8.0_331-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.331-b09, mixed mode)

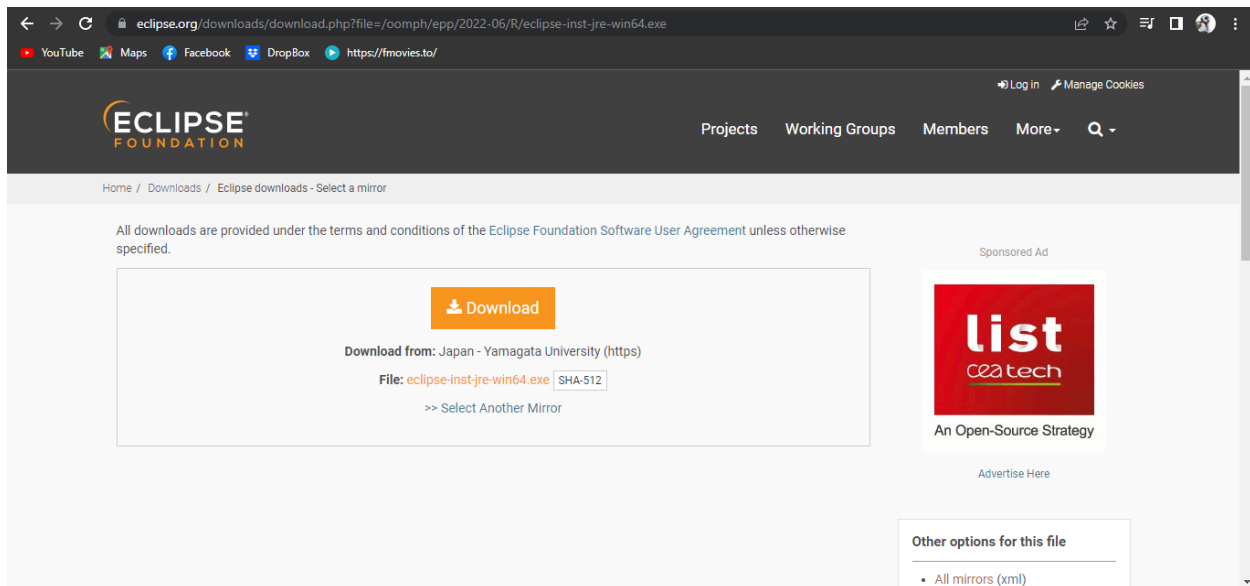
C:\Users\User>
```

Eclipse Installation:

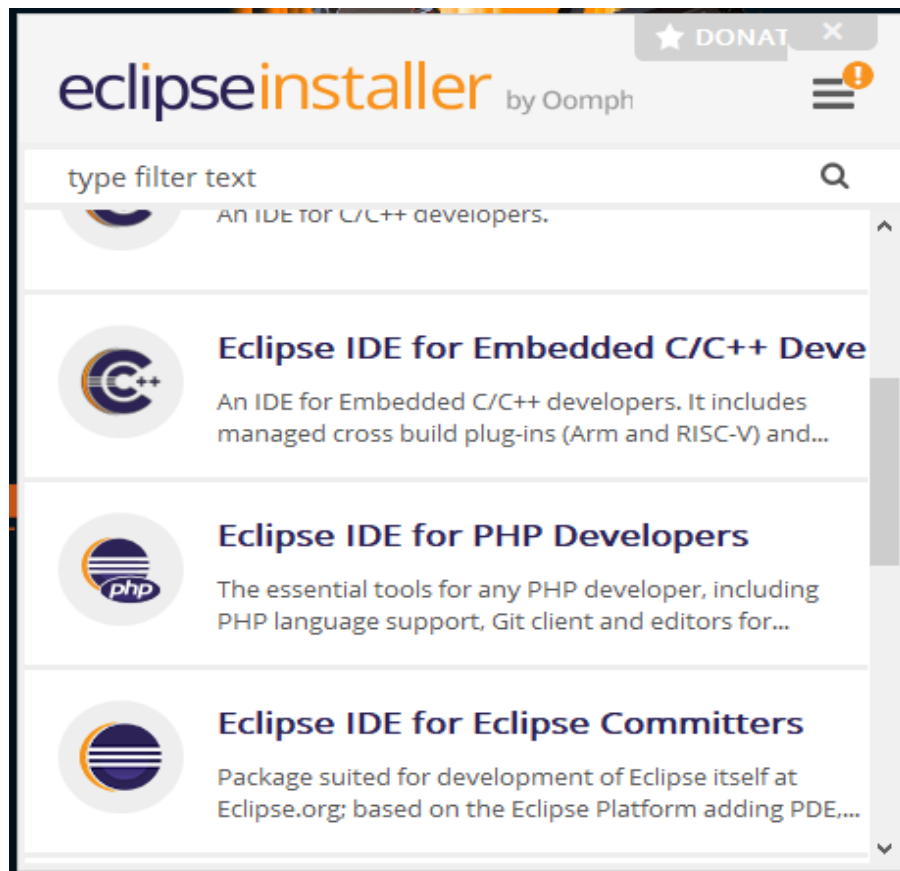
After JDK we have to install Eclipse Application from their website [www.eclipse.org > download > packages](https://www.eclipse.org/download/packages)



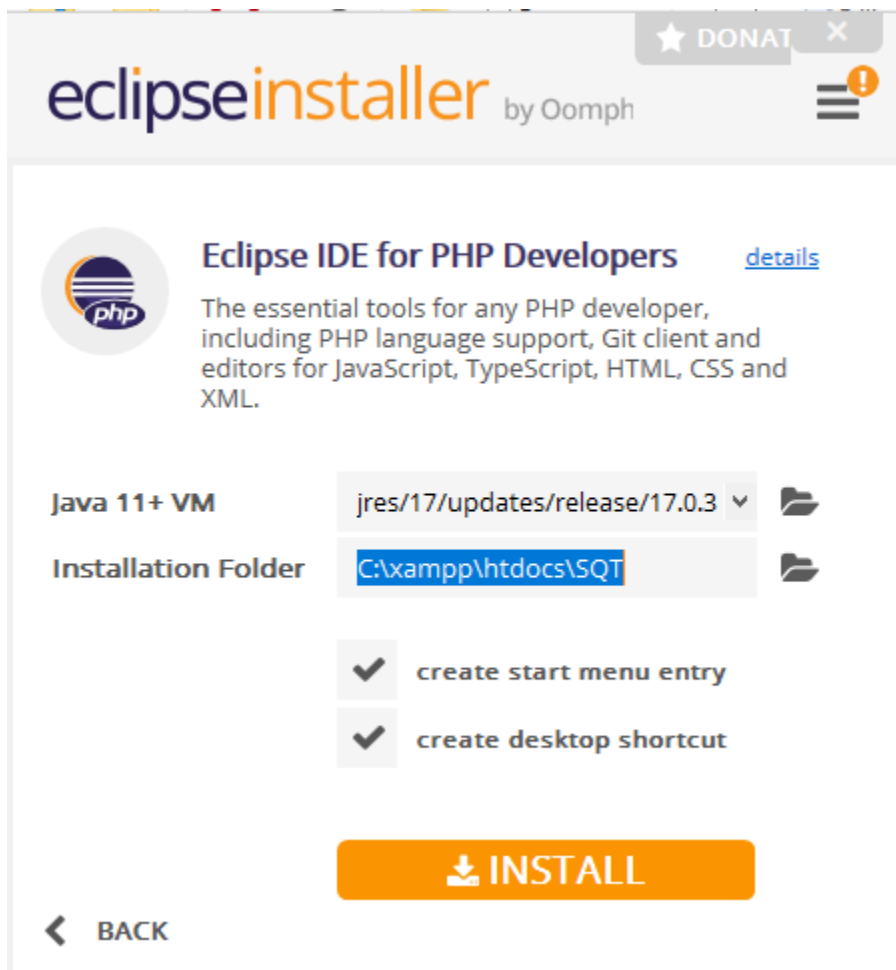
And download Eclipse IDE



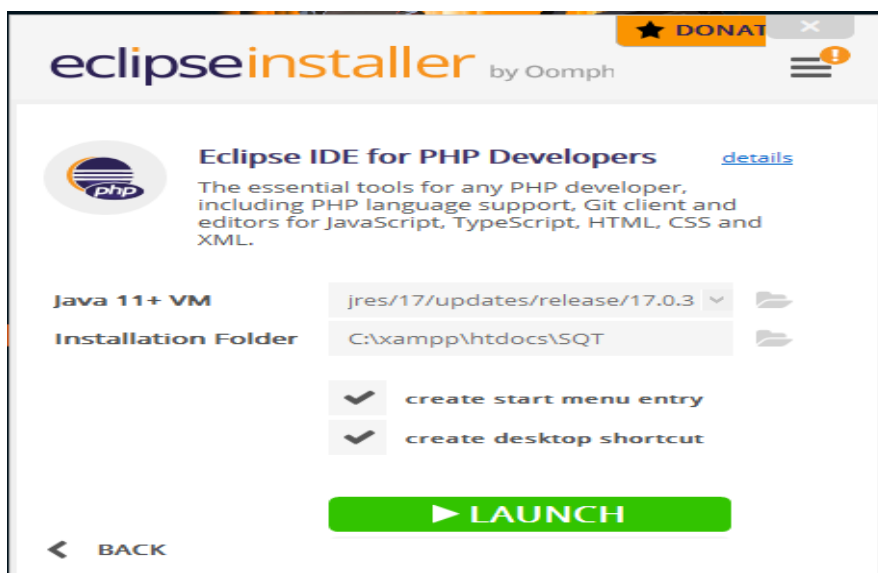
After install Eclipse Installer, open it and choose “Eclipse IDE for PHP developer”



And change the installation folder to Xampp software's "htdocs" folder.



Install it And Lunch it



Chrome Driver Install:

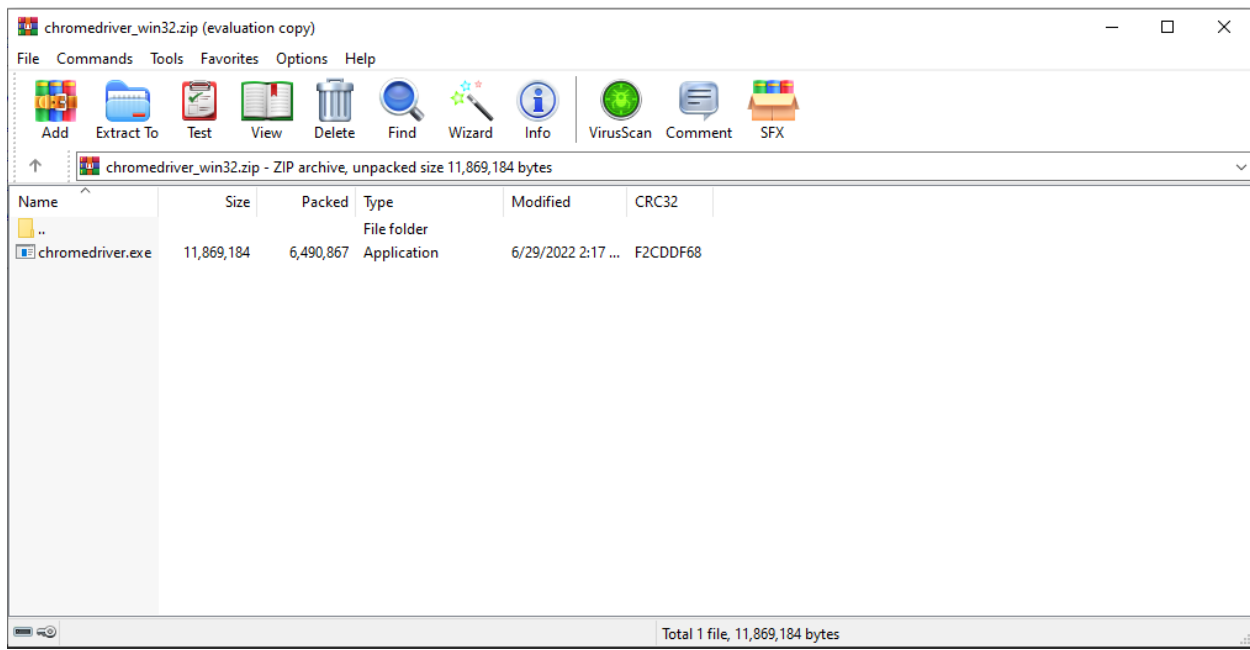
go to chromedriver.chromium.org website

A screenshot of a Google search results page for the query "chromedriver for windows 64". The search bar at the top shows the query and the Google logo. Below the search bar, it indicates "About 374,000 results (0.40 seconds)". The first result is from "https://chromedriver.chromium.org/downloads" and is titled "WebDriver for Chrome - Downloads". The snippet for this result mentions "ChromeDriver 84.0.4147.30. Supports Chrome version 84. Resolved issue 3420: after switching to the print window, the chromedriver stops responding." and includes links for "ChromeDriver Canary", "Version Selection", "Logging", and "Need help?". The second result is from "https://stackoverflow.com/questions/where-to-find-64-bit-version-of-chromedriver" and is titled "Where to find 64 bit version of chromedriver ... - Stack Overflow". The snippet for this result mentions "Apr 15, 2014 — Yes, Chromedriver works on 64-bit Windows and against 64-bit Chrome successfully. I came here while searching for the answer to if it works on ..." and includes a link for "More results from stackoverflow.com".

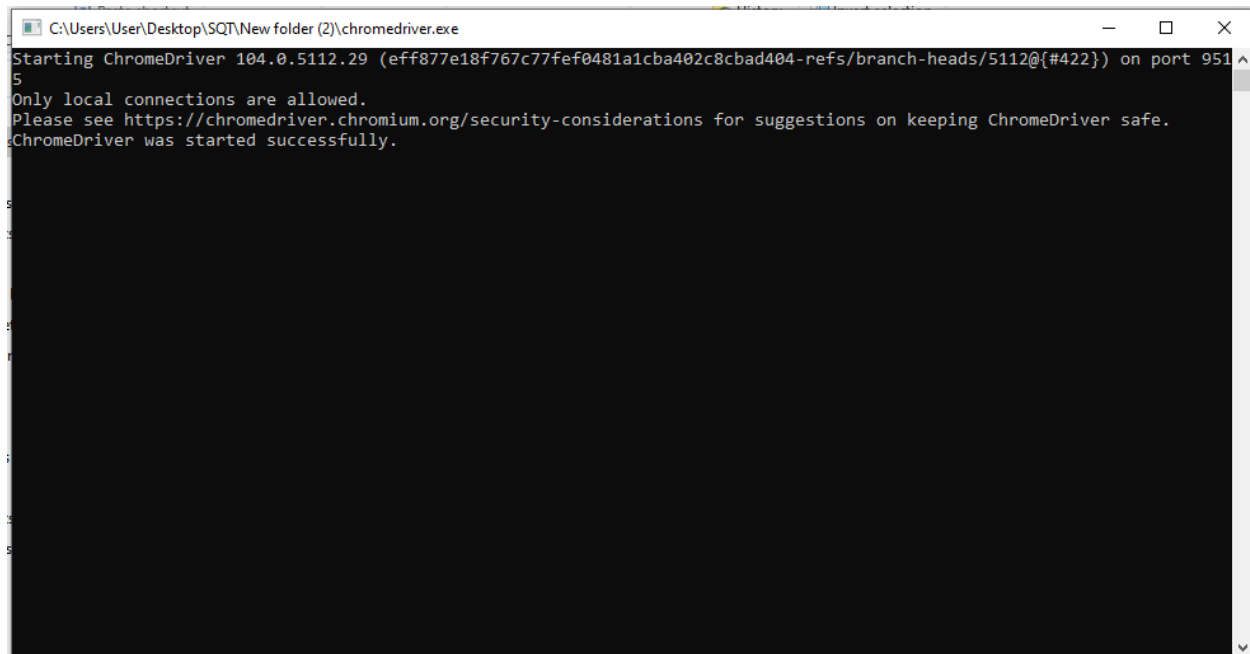
Download Chrome Driver

A screenshot of the "ChromeDriver - WebDriver for Chrome" website. The header bar is dark with the site name and navigation links: "ChromeDriver", "Capabilities & ChromeOptions", "Chrome Extensions", "ChromeDriver Canary", and "More". Below the header, the main heading is "Downloads". Underneath, there is a section titled "Current Releases" with a bulleted list of instructions for downloading the correct version of ChromeDriver based on the Chrome version being used. The list includes links to download ChromeDriver 104.0.5112.29, 103.0.5060.53, and 102.0.5005.61. Below the list, there is a note about using Chrome from Dev or Canary channels and a link to the "ChromeDriver Canary" page. At the bottom, there is a link to the "Version Selection" page. The footer of the page includes a small icon and the text "ChromeDriver 104.0.5112.29".

Unzip Chrome Driver and open it



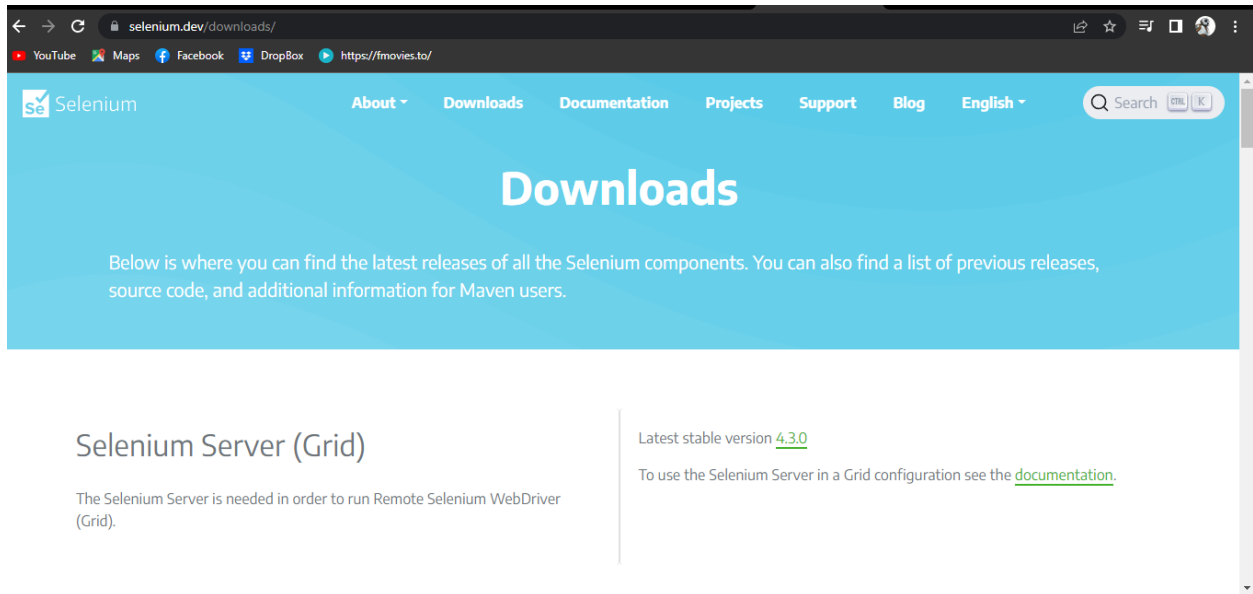
Chrome Driver has been started successfully.



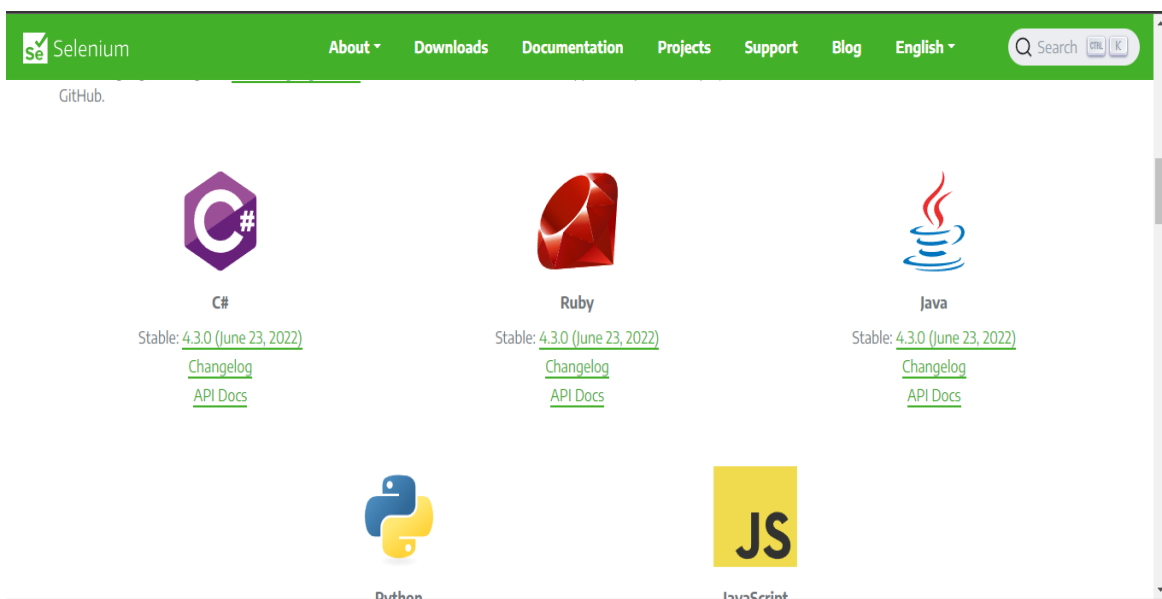
Selenium Installation

Our JDK & JRE and Finally Eclipse installation has been done .

Now we have to setup Selenium in Eclipse software. Go to Selenium Website for download Selenium



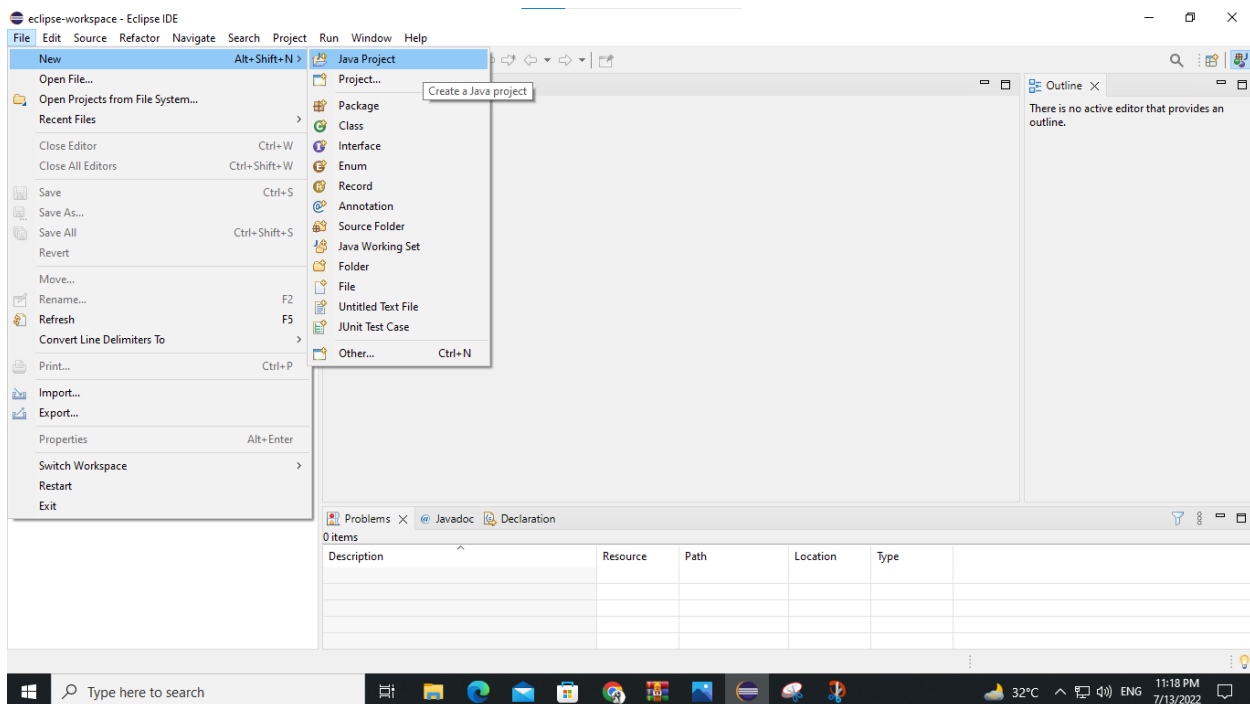
We have also Download Java Client for Selenium which is below from Selenium Download link.



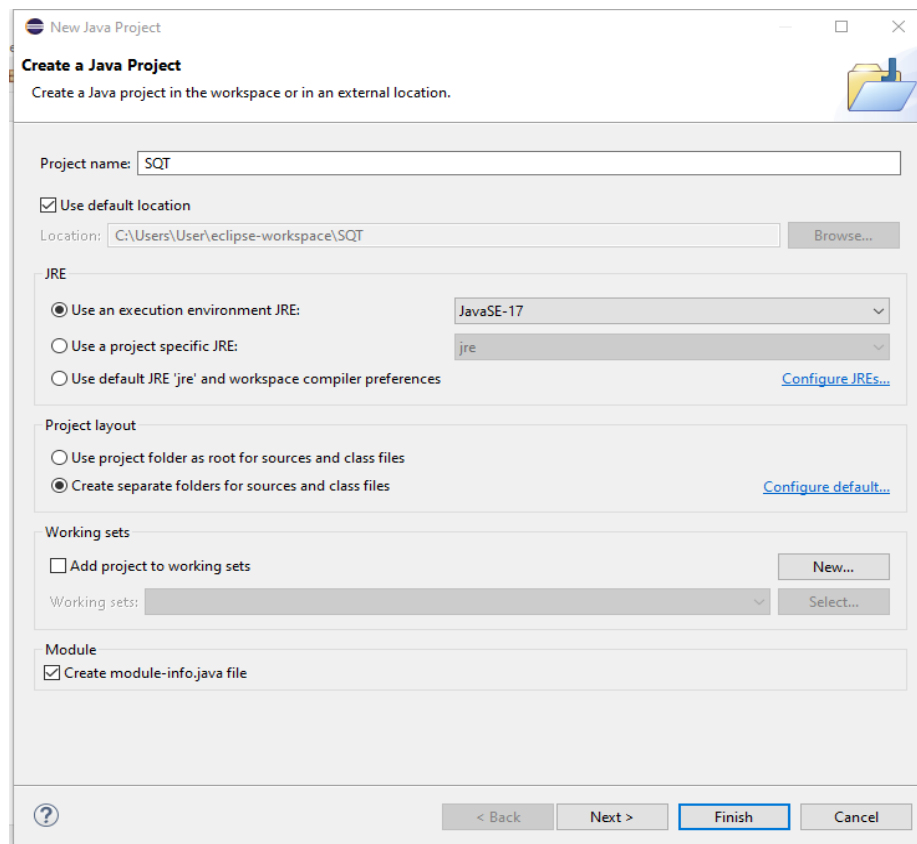
After download Selenium Unzip it

Name	Date modified	Type	Size
lib	7/13/2022 11:09 PM	File folder	
CHANGELOG	1/1/2010 12:00 AM	File	141 KB
LICENSE	1/1/2010 12:00 AM	File	12 KB
NOTICE	1/1/2010 12:00 AM	File	1 KB
selenium-api-4.3.0	1/1/2010 12:00 AM	Executable Jar File	216 KB
selenium-api-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	172 KB
selenium-chrome-driver-4.3.0	1/1/2010 12:00 AM	Executable Jar File	15 KB
selenium-chrome-driver-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	11 KB
selenium-chromium-driver-4.3.0	1/1/2010 12:00 AM	Executable Jar File	29 KB
selenium-chromium-driver-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	21 KB
selenium-devtools-v85-4.3.0	1/1/2010 12:00 AM	Executable Jar File	1,110 KB
selenium-devtools-v85-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	467 KB
selenium-devtools-v101-4.3.0	1/1/2010 12:00 AM	Executable Jar File	1,376 KB
selenium-devtools-v101-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	585 KB
selenium-devtools-v102-4.3.0	1/1/2010 12:00 AM	Executable Jar File	1,387 KB
selenium-devtools-v102-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	590 KB
selenium-devtools-v103-4.3.0	1/1/2010 12:00 AM	Executable Jar File	1,395 KB
selenium-devtools-v103-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	593 KB
selenium-edge-driver-4.3.0	1/1/2010 12:00 AM	Executable Jar File	13 KB
selenium-edge-driver-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	9 KB
selenium-firefox-driver-4.3.0	1/1/2010 12:00 AM	Executable Jar File	111 KB
selenium-firefox-driver-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	60 KB
selenium-http-4.3.0	1/1/2010 12:00 AM	Executable Jar File	58 KB
selenium-http-4.3.0-sources	1/1/2010 12:00 AM	Executable Jar File	31 KB

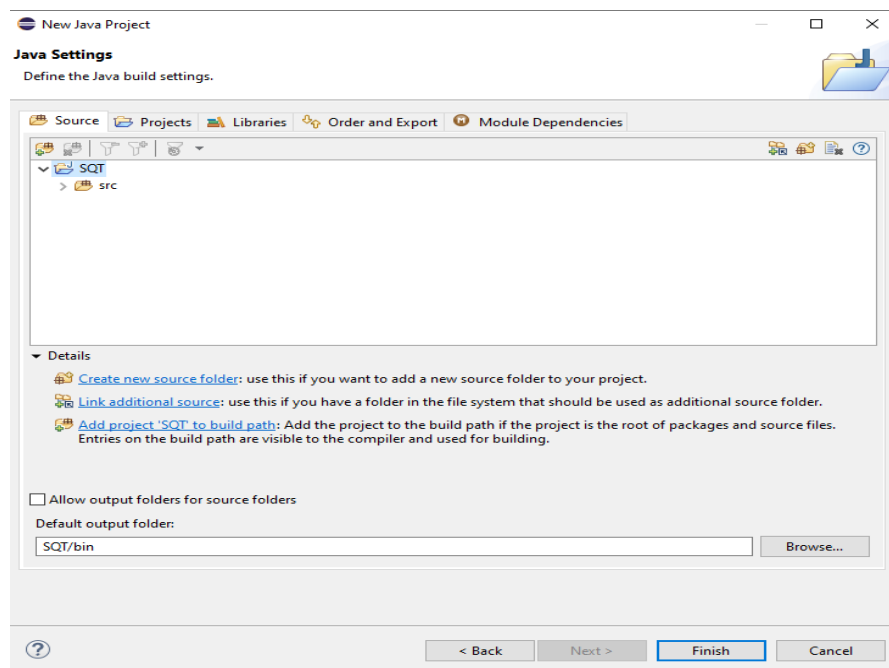
Now open Eclipse IDE and click on File > New > java Project



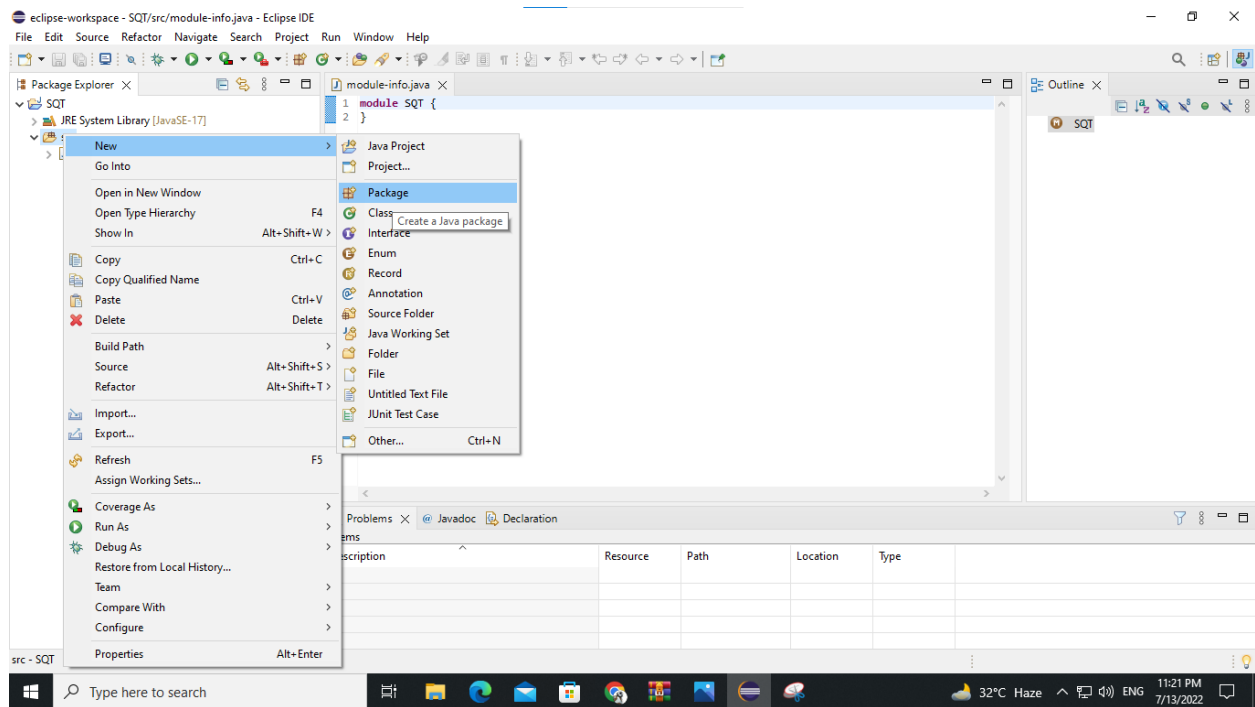
Create a New Java Project file and press Next



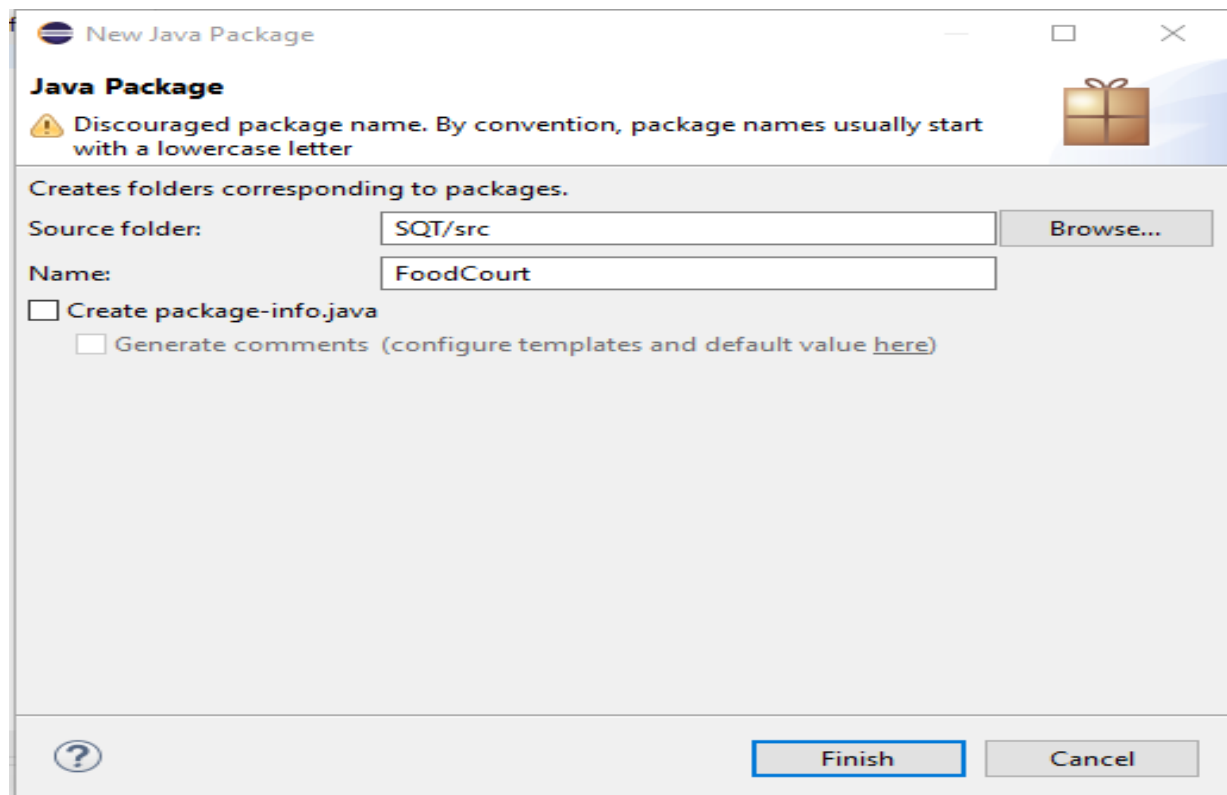
Then Press Finish



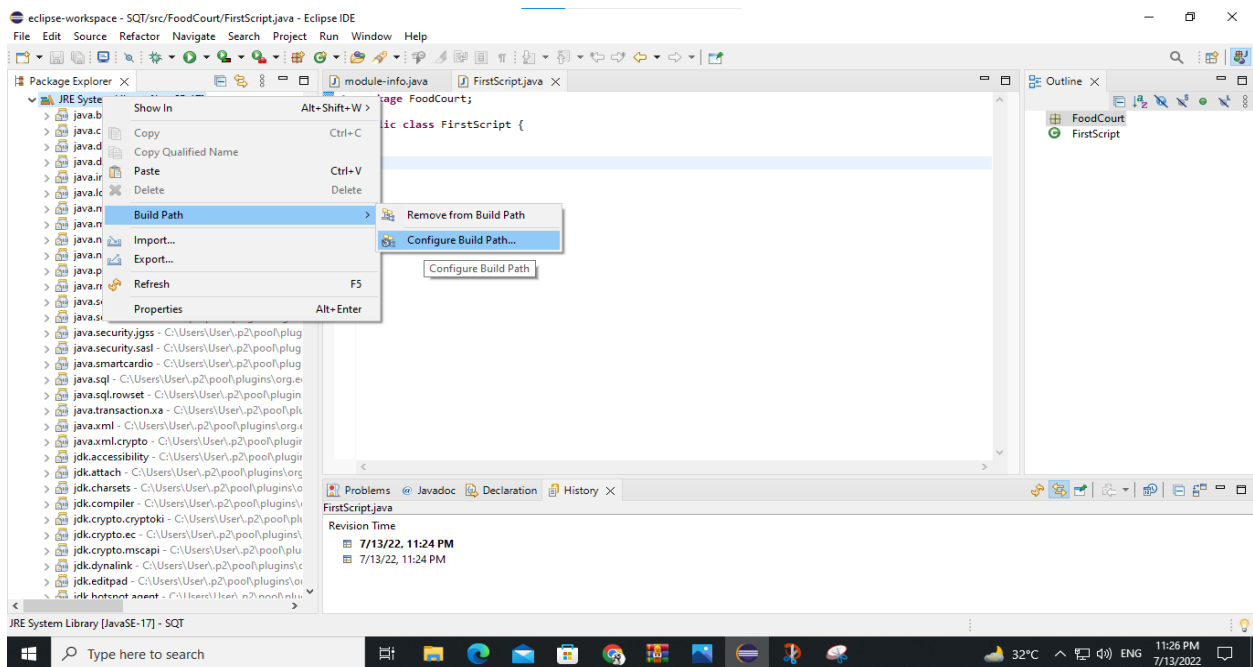
After this steps now we have to create package from SQT > src > New > Package



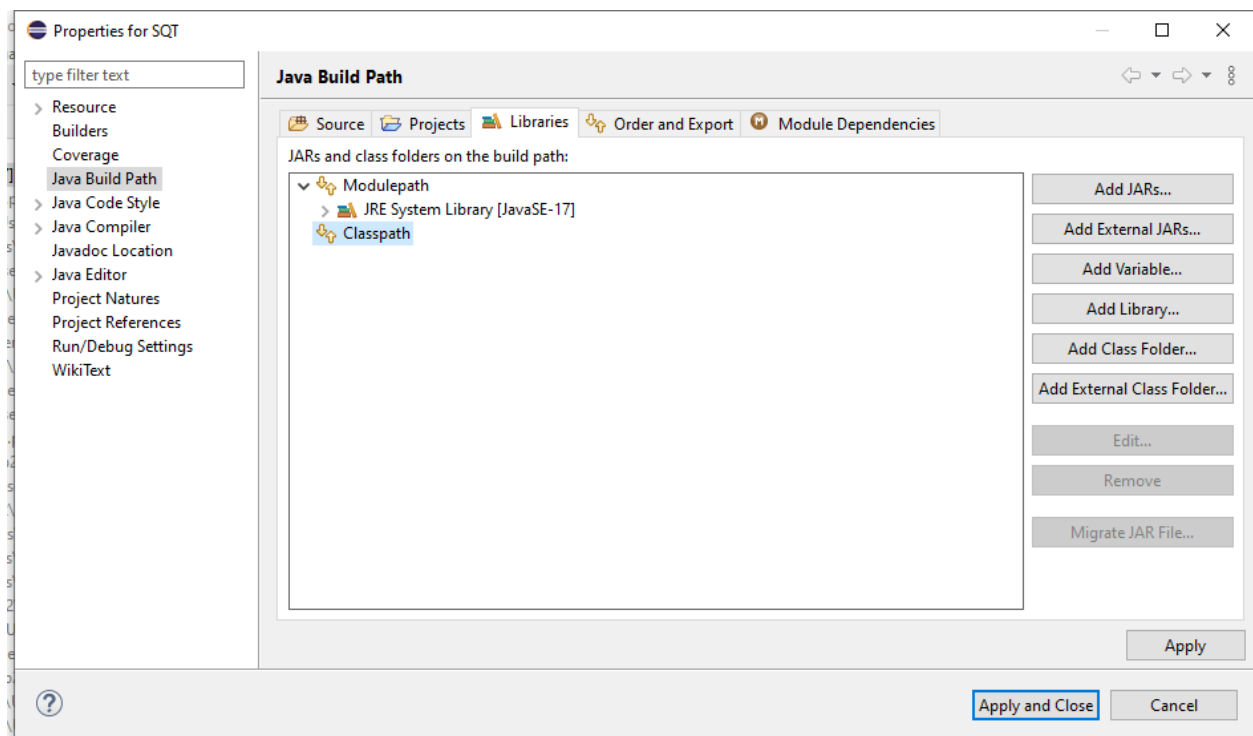
Give package name and press Finish



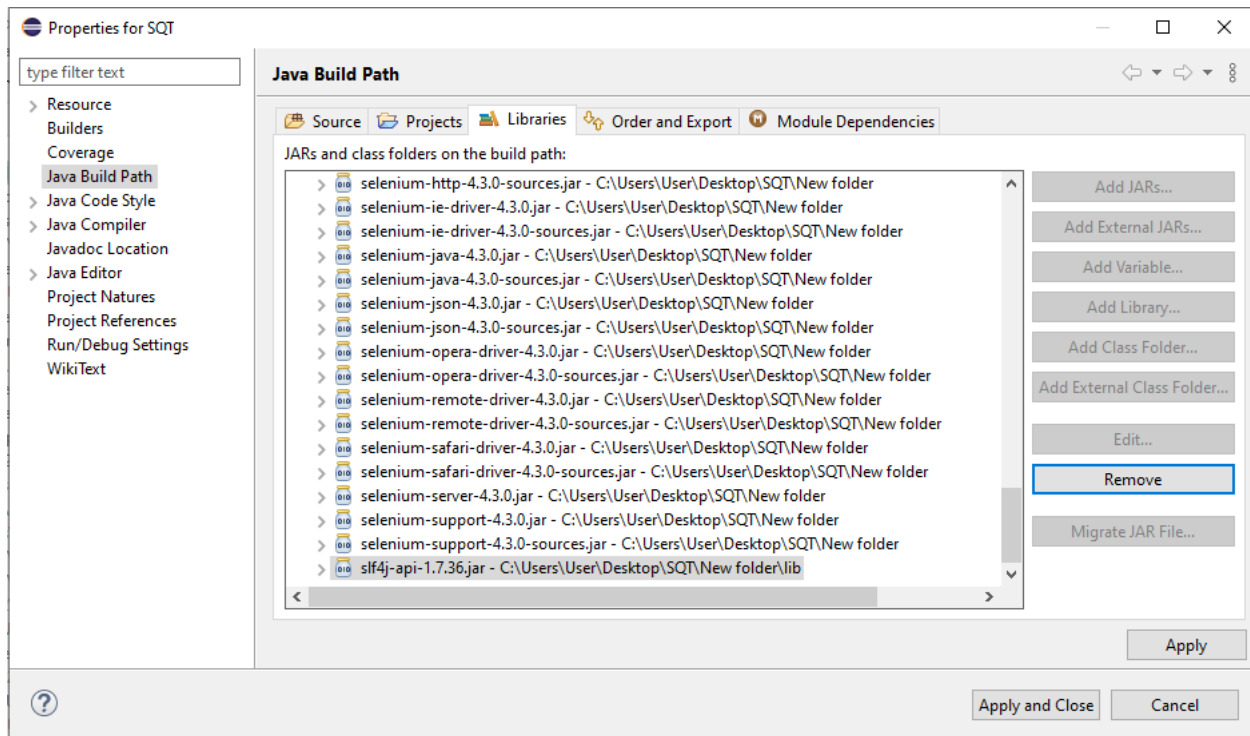
For add Selenium Library jar files we have to go JRE System Library (JavaSE-17) (by mouse right click) > Build Path > Configure build Path



Choose Class Path



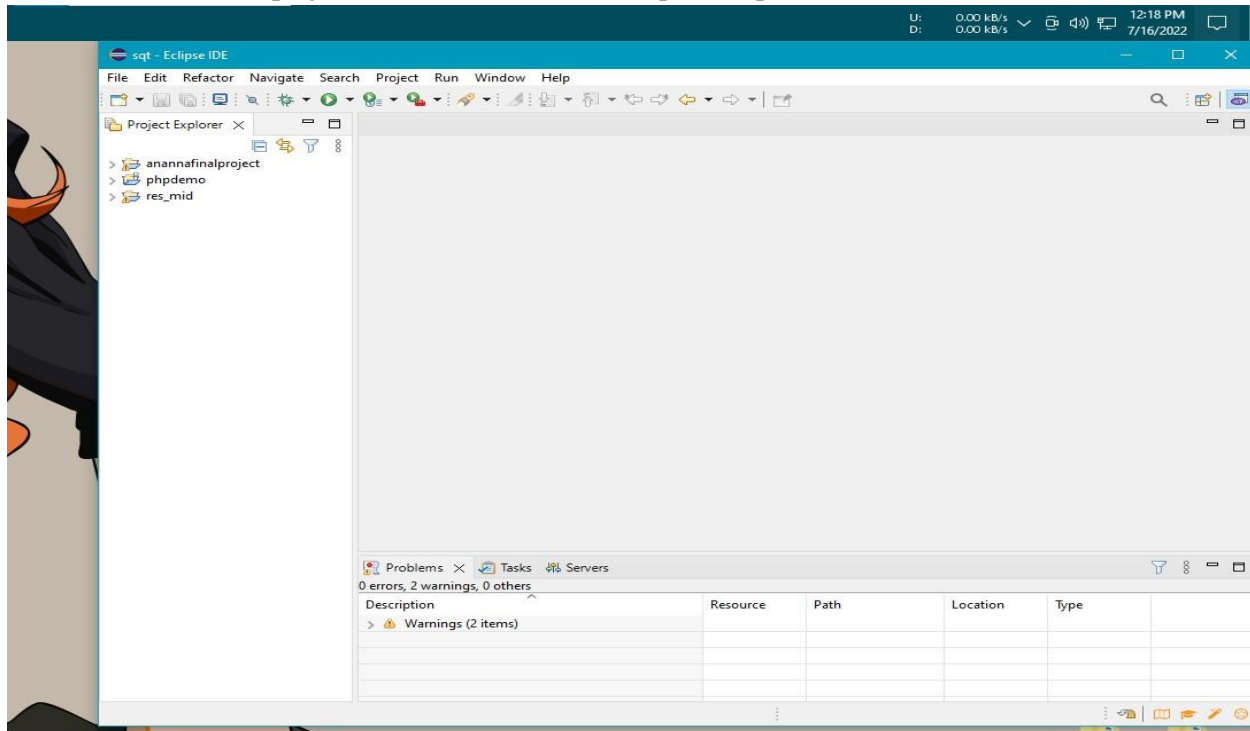
Now add all Library Jar files from Selenium unzipped file



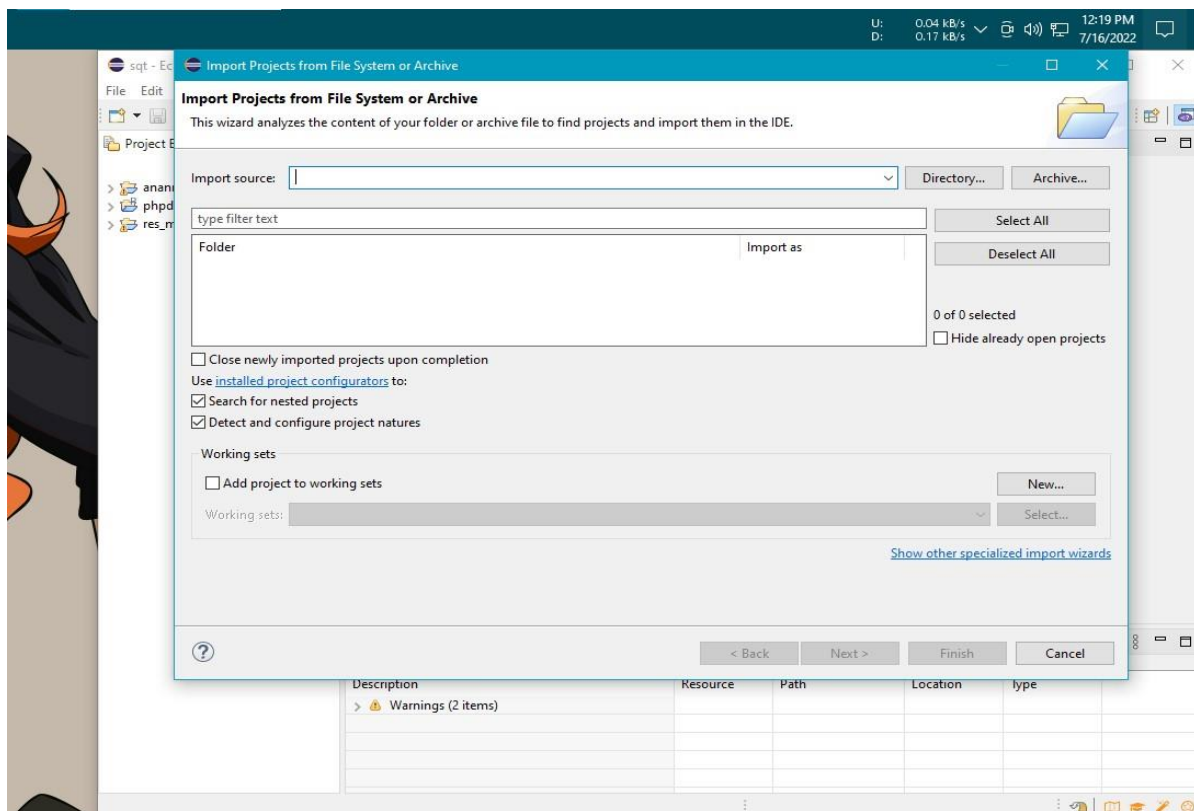
This is done for Selenium Setup.

Project Test:

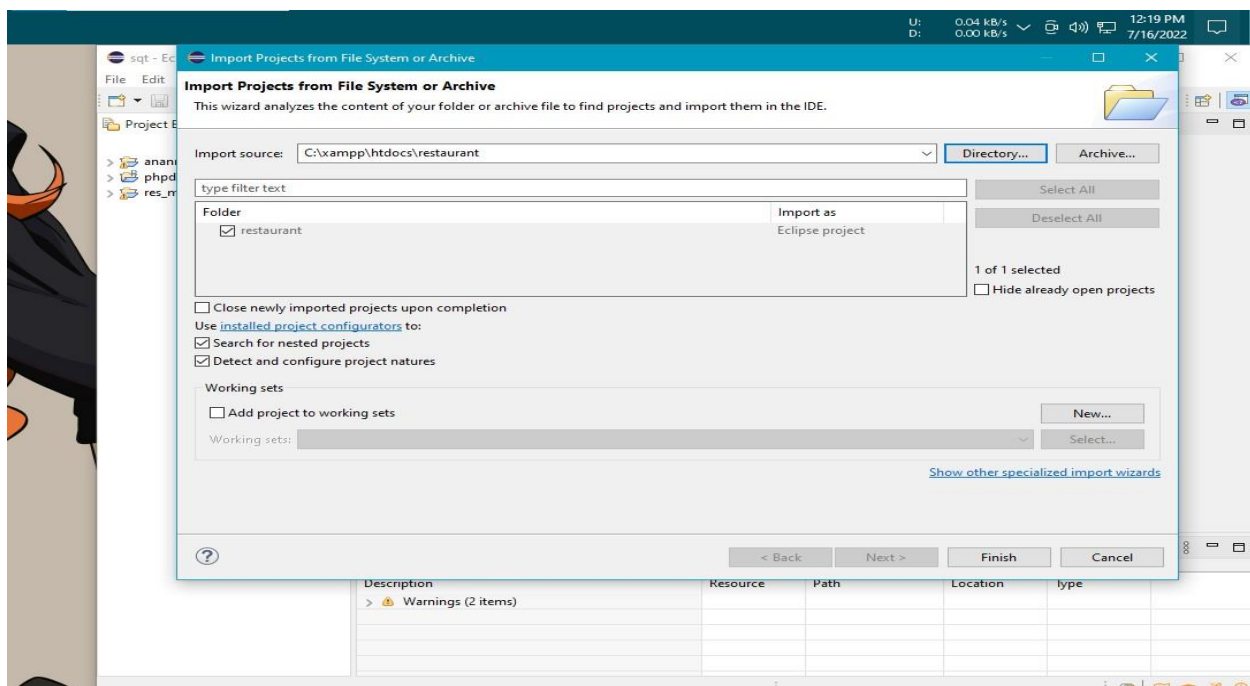
Now we have to run a project that is not it run or not. Open Eclipse software



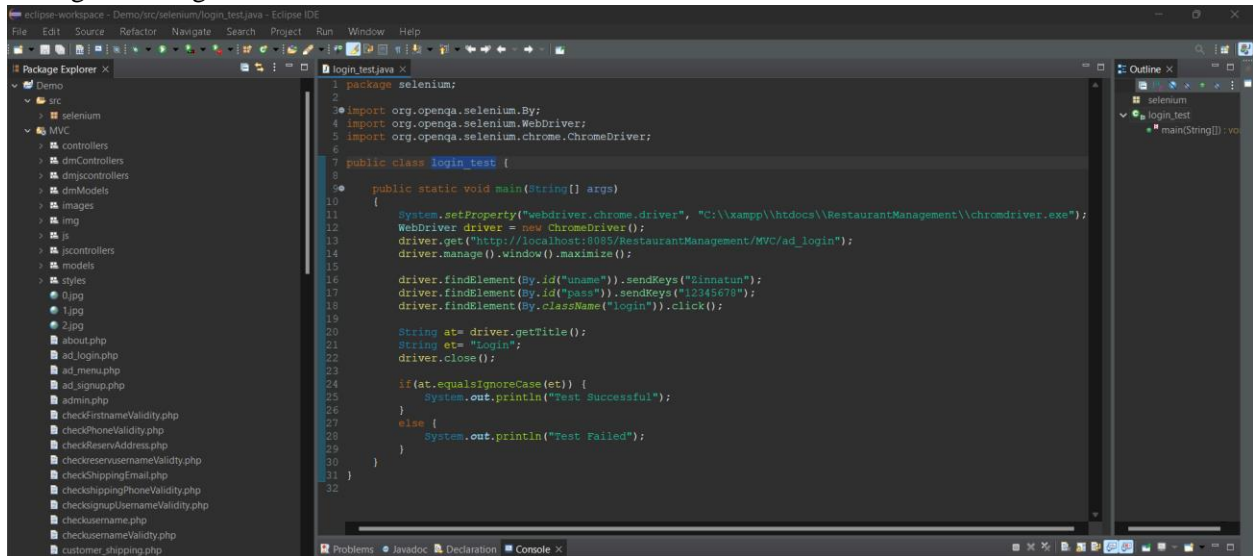
Open File option and select Directory



Select path file from Xampp software htdocs's folder as a Directory and folder name "restaurant"



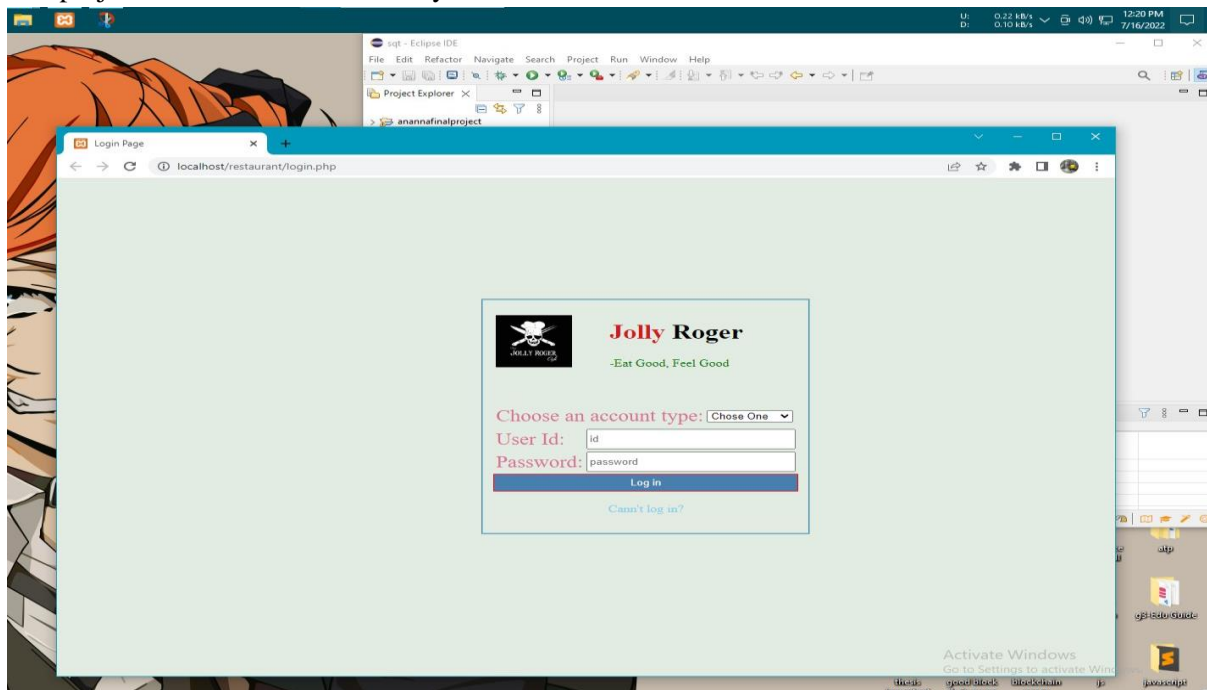
Now give testing code and select run



Successfully Logged into Restaurant Login page from chrome driver via Xampp

```
DevTools listening on ws://127.0.0.1:55224/devtools/browser/d573e216-a766-4bb8-b413-fabead55ad5f
[10648:8528:0718/220817.954:ERROR:device_event_log_impl.cc(214)] [22:08:17.954] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not functioning. (0x1F)
[10648:8528:0718/220817.955:ERROR:device_event_log_impl.cc(214)] [22:08:17.955] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not functioning. (0x1F)
Username input completed
Password input completed
login button clicked
Successfully logged in
```


Our project has been run successfully



After giving ID Pass this is our Homepage of “Jolly Roger Restaurant”

