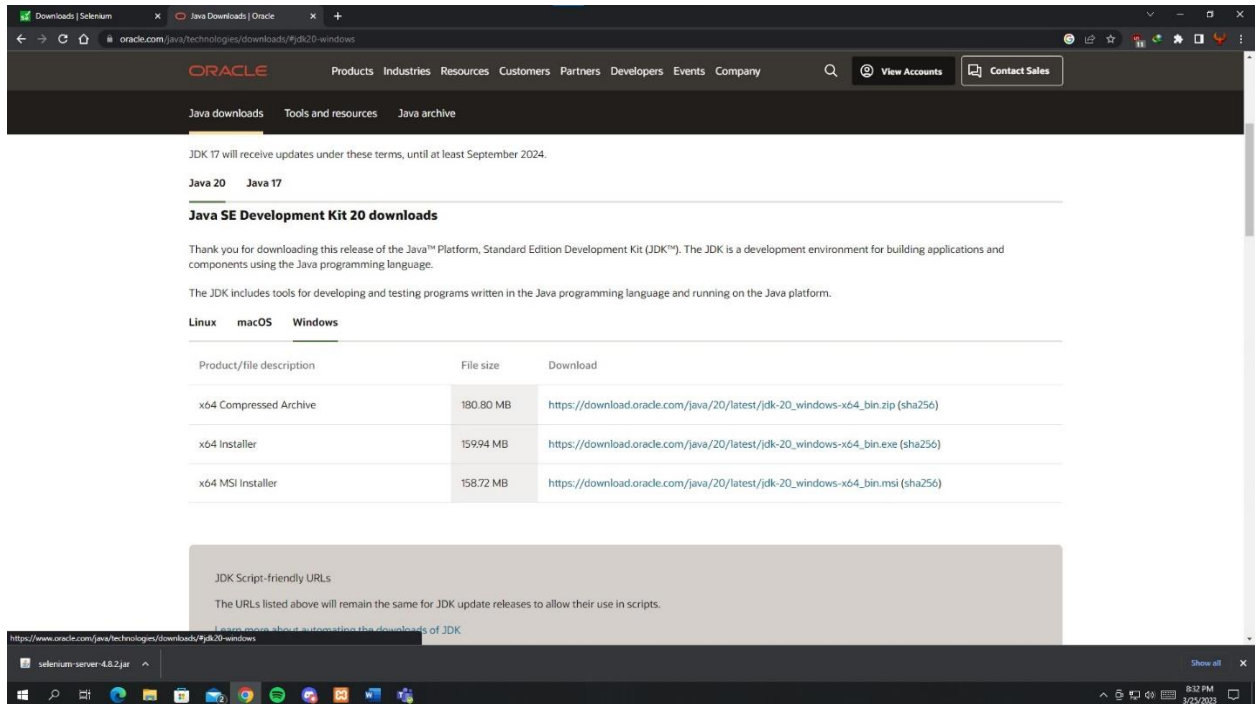


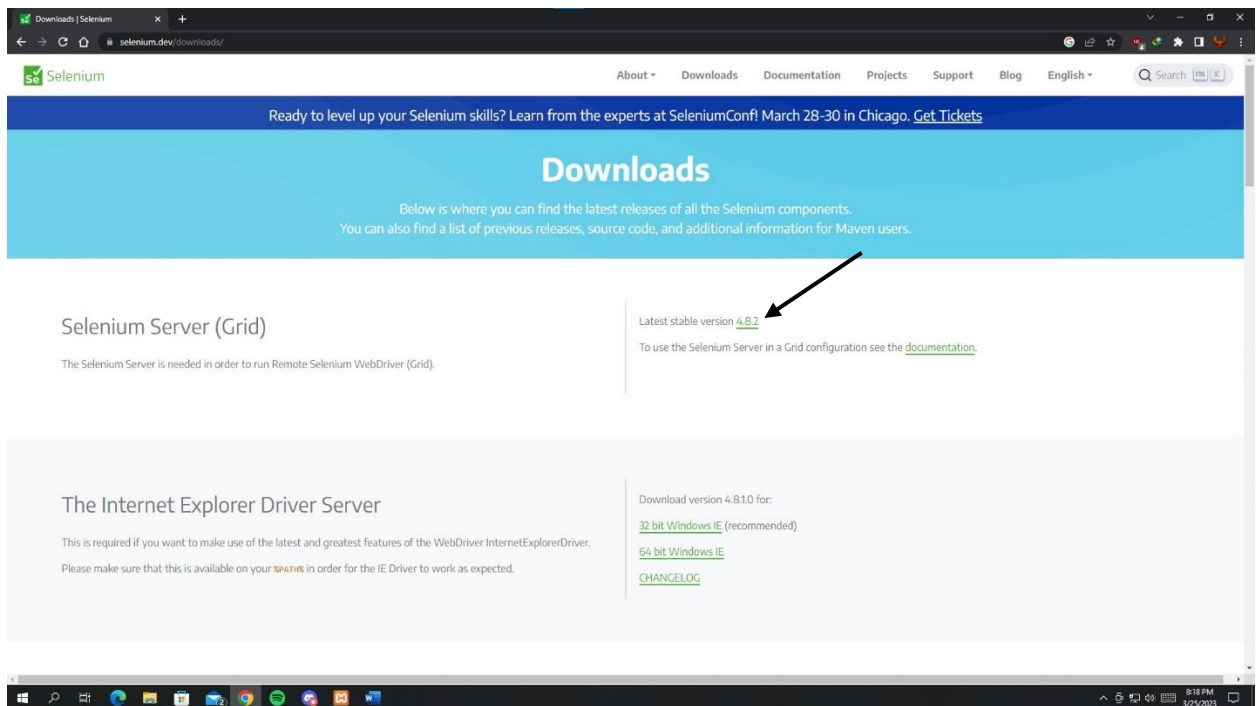
Step-1: First, we will download JDK because we will be using java for testing a program.



The screenshot shows the Oracle Java Downloads page for JDK 20. The page is titled "Java SE Development Kit 20 downloads" and includes a table with download links for Linux, macOS, and Windows. The Windows section is highlighted, showing three download options: x64 Compressed Archive (180.80 MB), x64 Installer (15994 MB), and x64 MSI Installer (158.72 MB). The page also includes a section for "JDK Script-friendly URLs" and a note about updates.

| Product/file description | File size | Download |
|--------------------------|-----------|--|
| x64 Compressed Archive | 180.80 MB | https://download.oracle.com/java/20/latest/jdk-20_windows-x64_bin.zip (sha256) |
| x64 Installer | 15994 MB | https://download.oracle.com/java/20/latest/jdk-20_windows-x64_bin.exe (sha256) |
| x64 MSI Installer | 158.72 MB | https://download.oracle.com/java/20/latest/jdk-20_windows-x64_bin.msi (sha256) |

Step-2: Now, we will download Selenium server latest version. Here latest version is 4.8.2.



The screenshot shows the Selenium Downloads page. The page is titled "Downloads" and includes a section for "Selenium Server (Grid)". The latest stable version is 4.8.2, which is highlighted with a red arrow. The page also includes a section for "The Internet Explorer Driver Server" and a note about the required version (4.8.1.0).

Ready to level up your Selenium skills? Learn from the experts at SeleniumConf! March 28-30 in Chicago. [Get Tickets](#)

Downloads

Below is where you can find the latest releases of all the Selenium components. You can also find a list of previous releases, source code, and additional information for Maven users.

Selenium Server (Grid)

The Selenium Server is needed in order to run Remote Selenium WebDriver (Grid).

Latest stable version [4.8.2](#)

To use the Selenium Server in a Grid configuration see the [documentation](#).

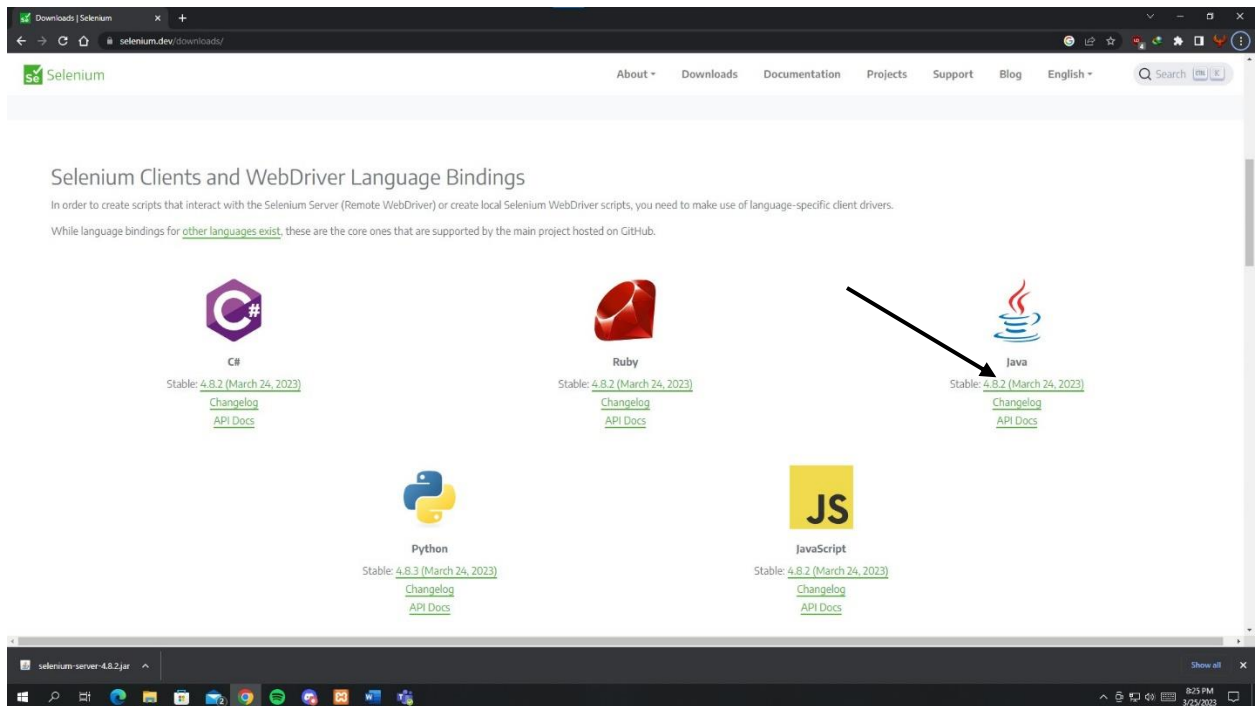
The Internet Explorer Driver Server

This is required if you want to make use of the latest and greatest features of the WebDriver InternetExplorerDriver. Please make sure that this is available on your [SPANS](#) in order for the IE Driver to work as expected.

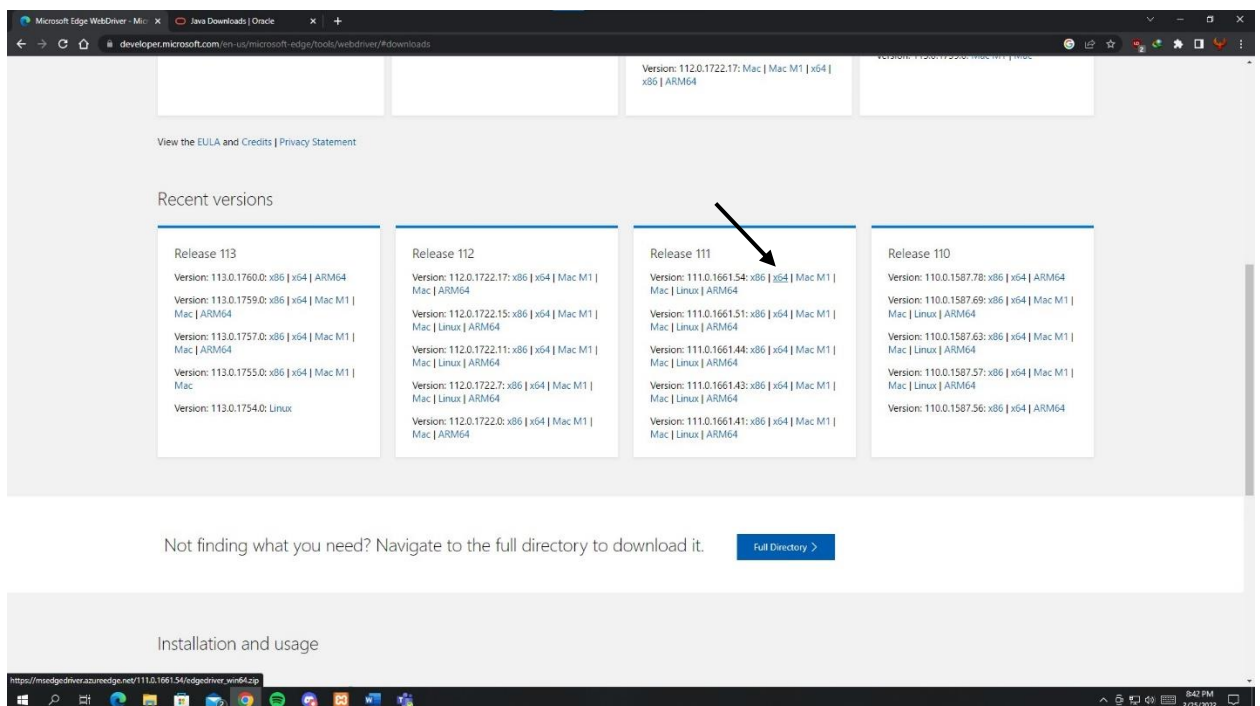
Download version 4.8.1.0 for:

- [32 bit Windows IE](#) (recommended)
- [64 bit Windows IE](#)
- [CHANGELOG](#)

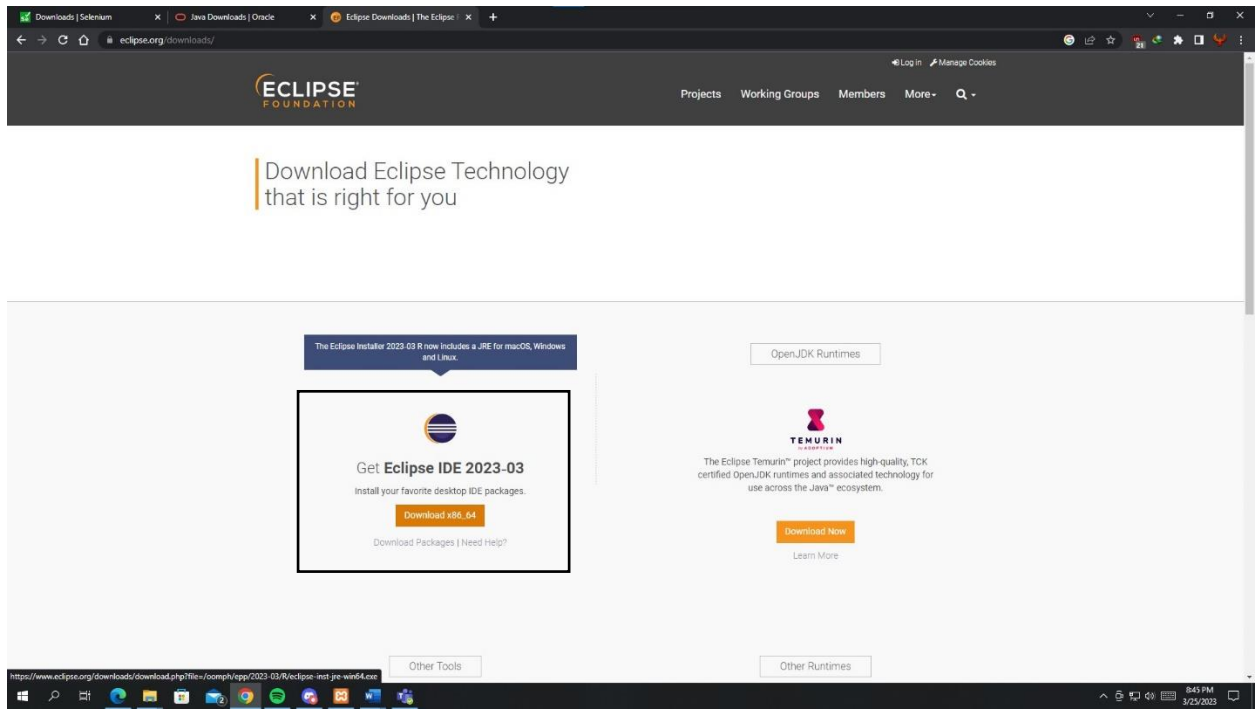
Step-3: Now, we need to download selenium client latest version (4.8.2)



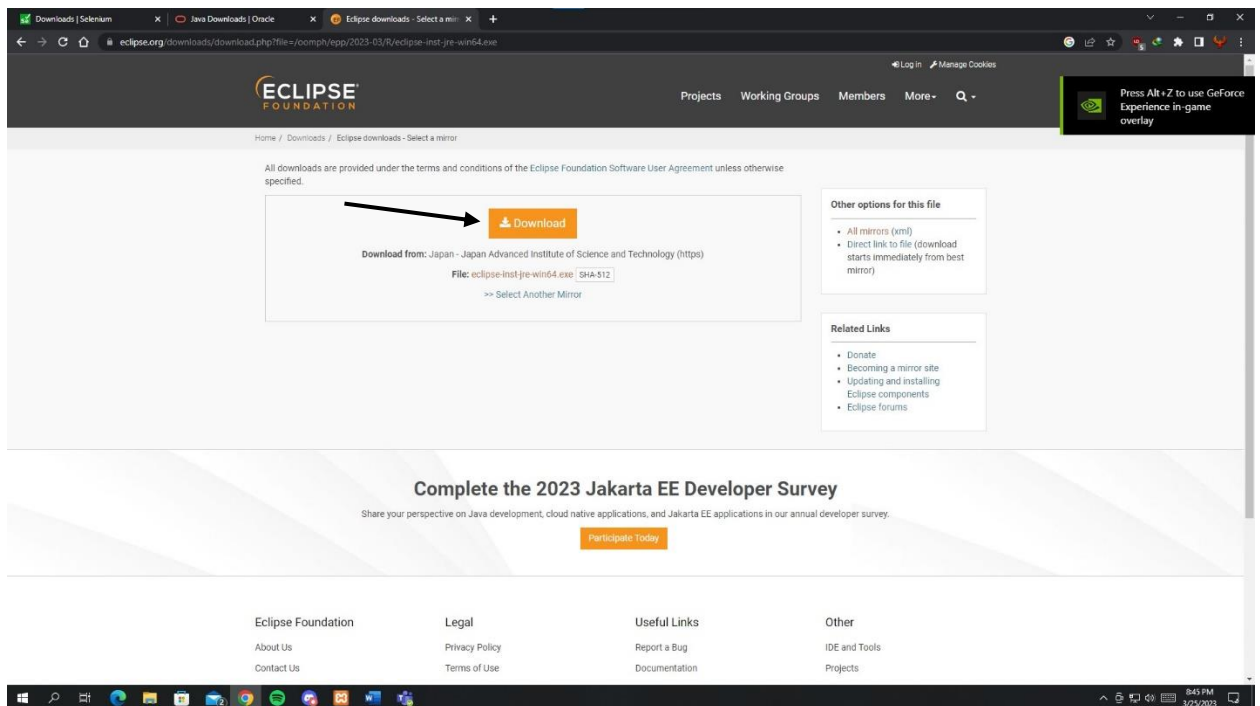
Step-4: WebDriver is an essential thing to test a website or a module of it. We will be using Microsoft Edge. So, we will download edge driver. Furthermore, the version of the browser and the system type should be matched. This PC is 64-bit. So, 64-bit of the driver will be downloaded.



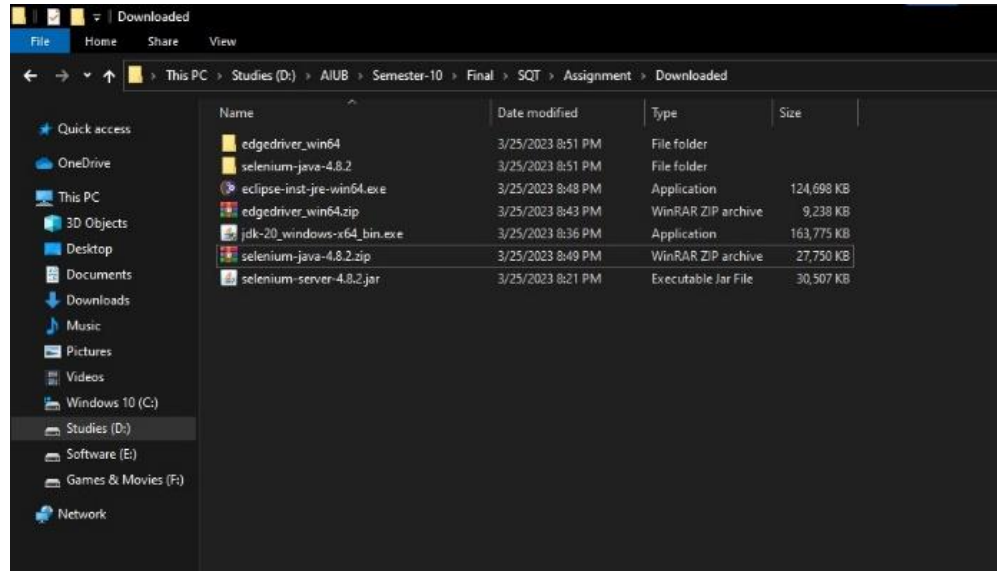
Step-5: Eclipse IDE will be needed to test our project.



Step-6: By clicking the download button, Eclipse IDE will start downloading.

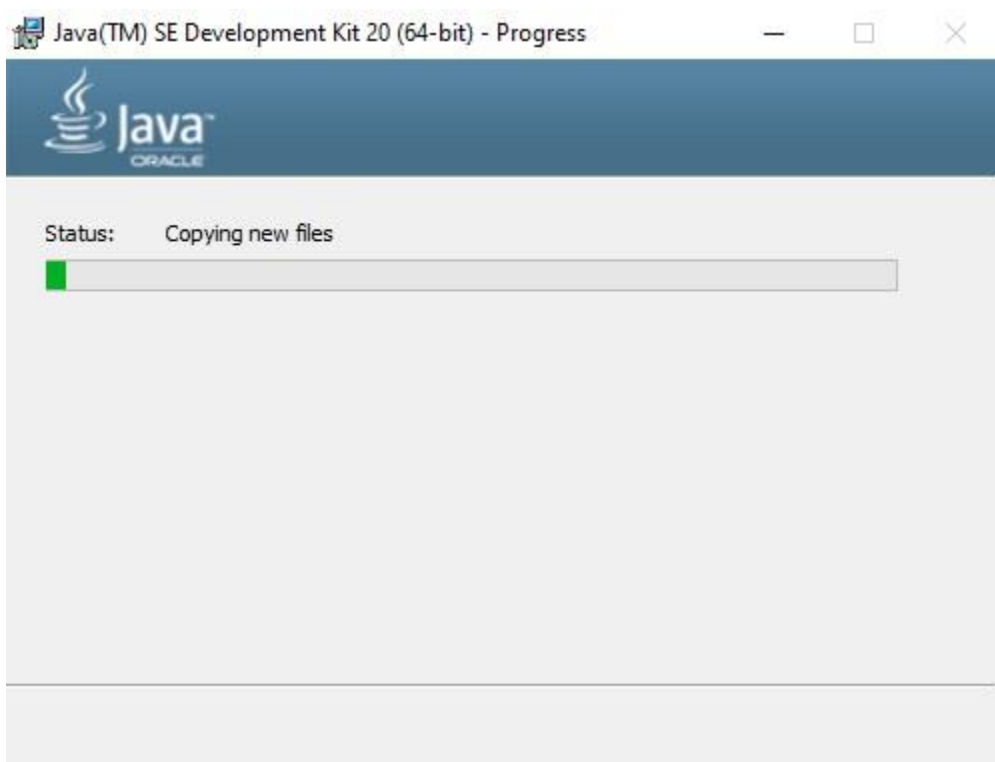


Step-7: Now we have all the necessary files. We need to extract the zip files.



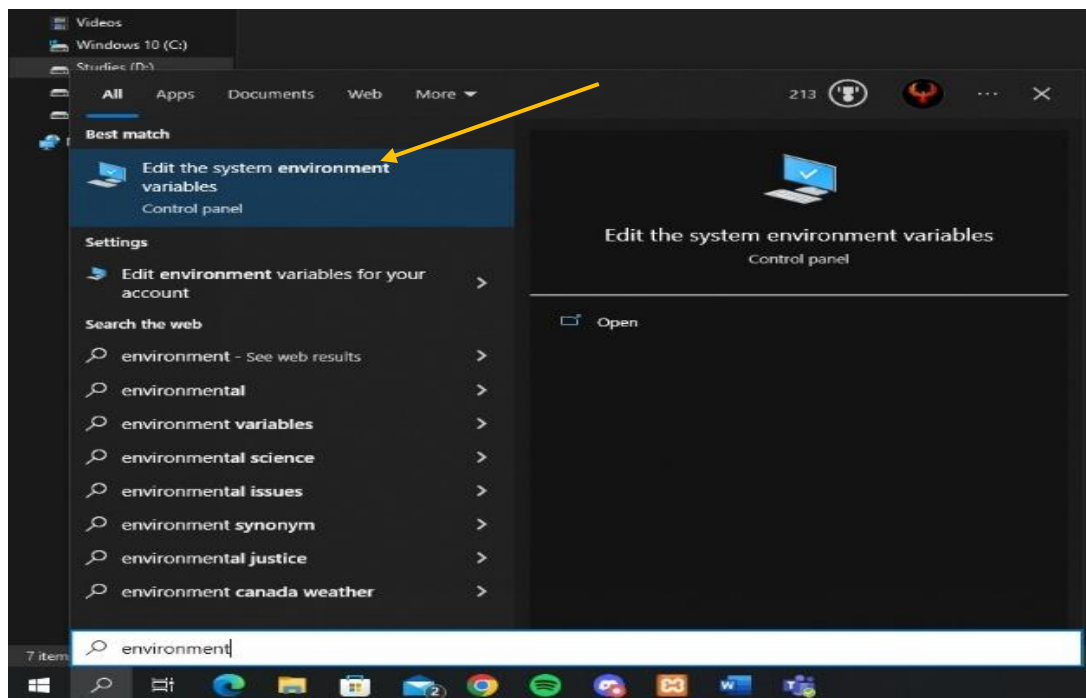
Step-8: JDK will be installed first.



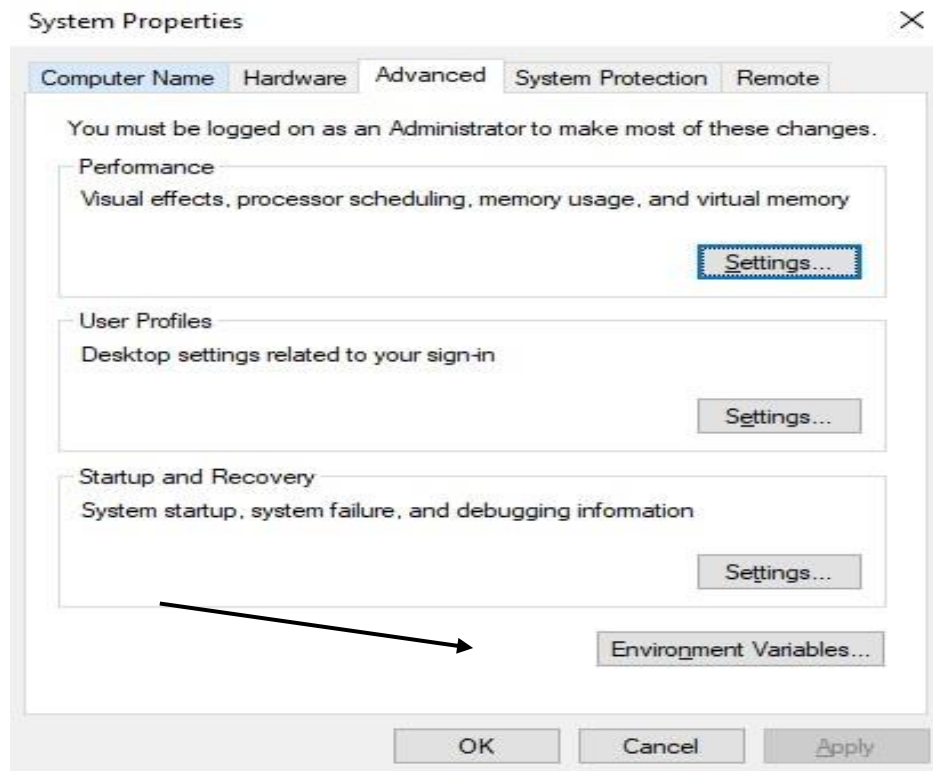




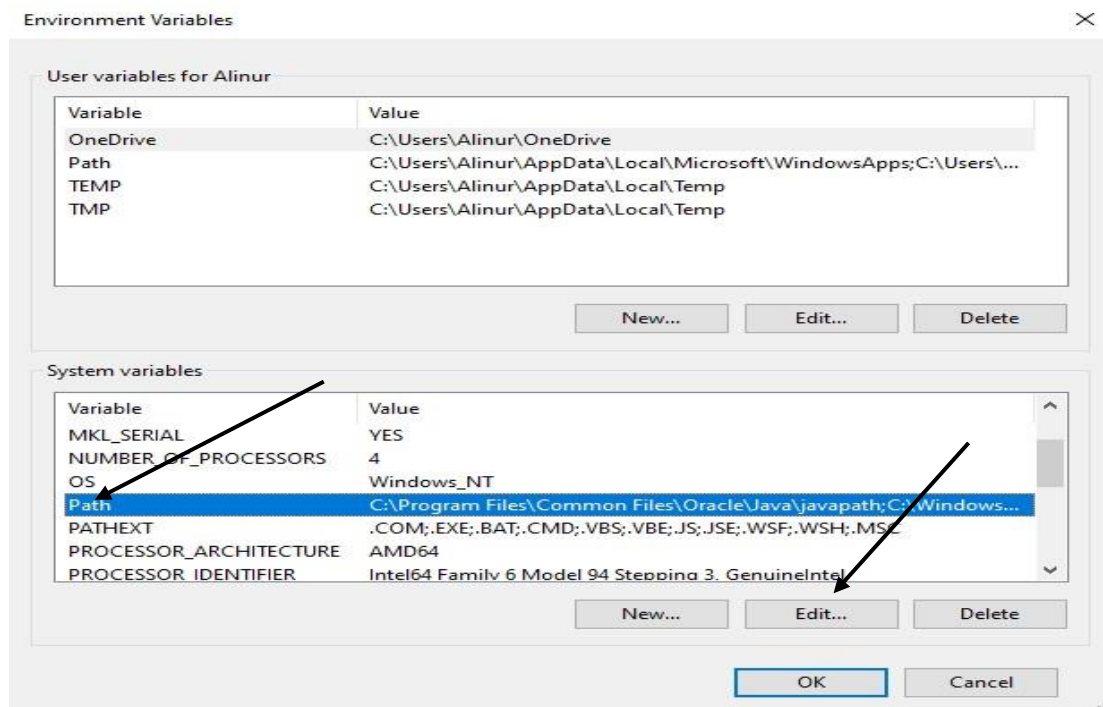
Step-9: Now we need to go to environment settings to add the library path of the JDK which we have installed now.



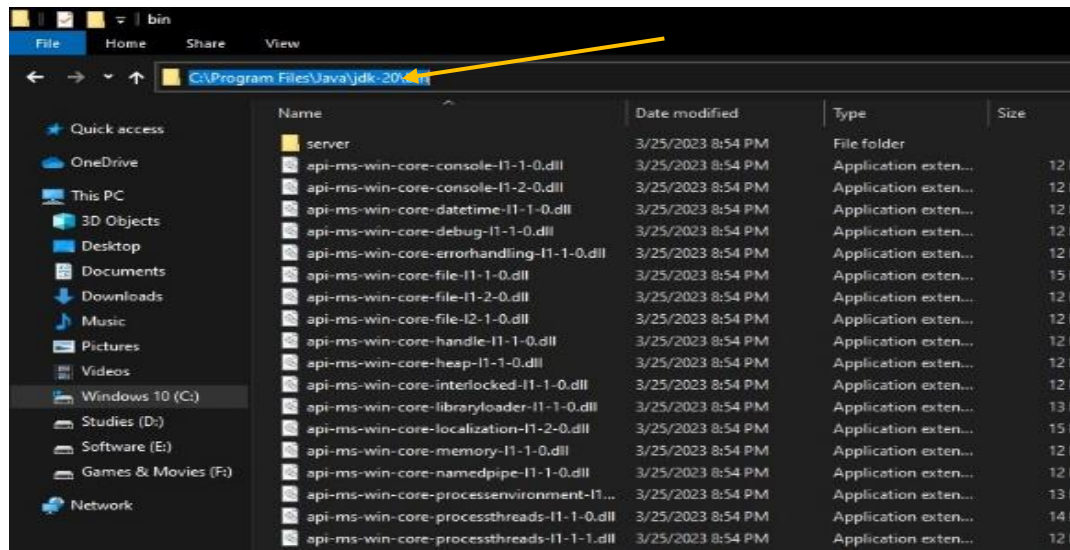
Step-10: First, we clicked on Environment Variables



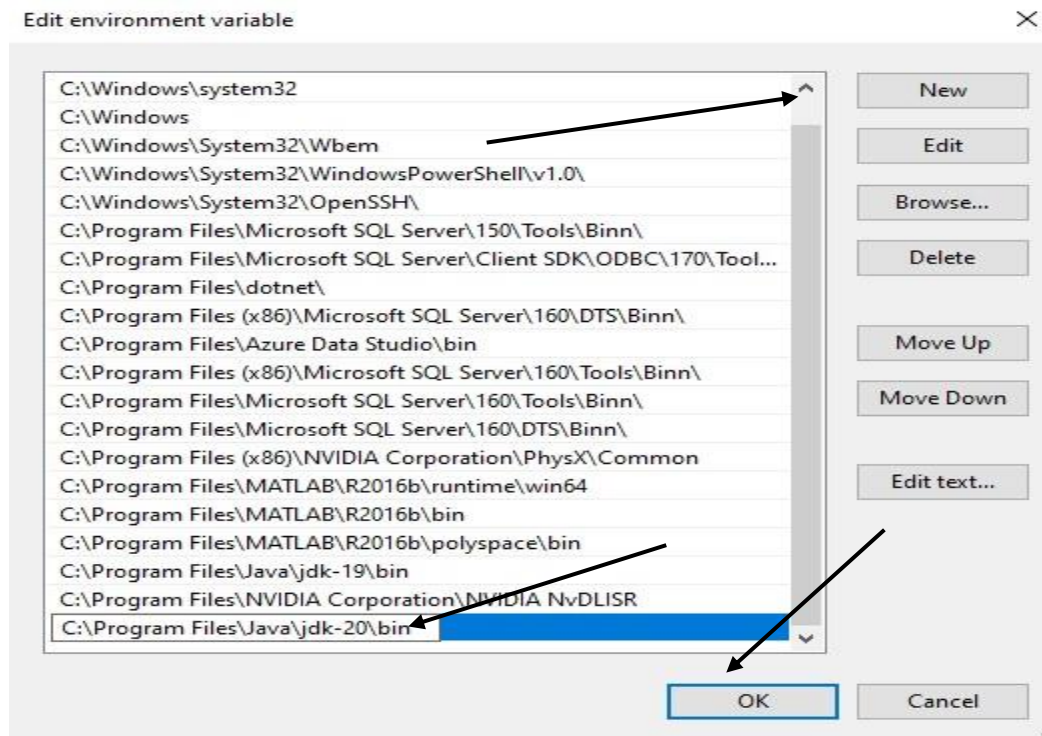
Step-11: Now, we'll click on Path and then click on Edit.



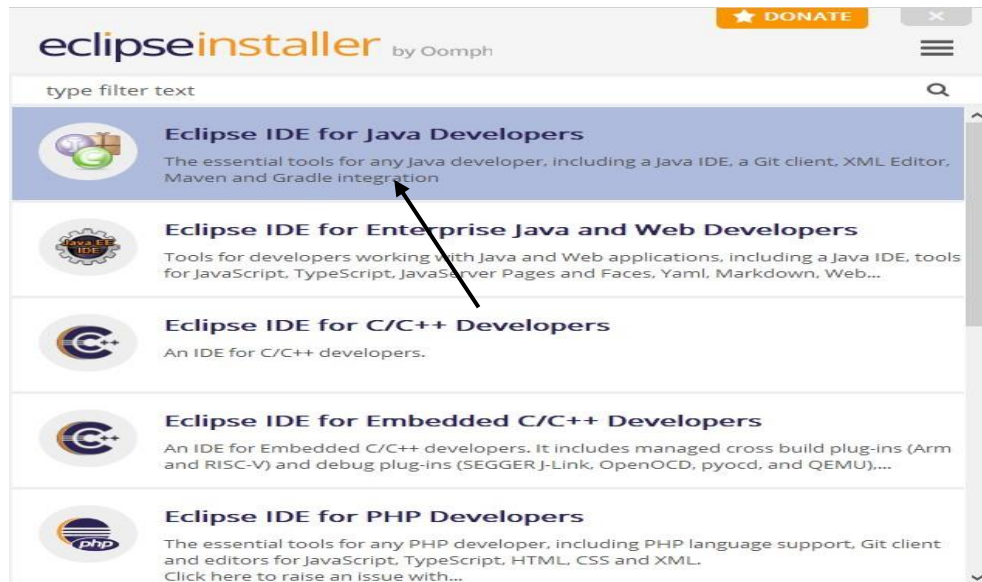
Step-12: Now, we'll go to the directory of the bin folder where we have installed the JDK. Then, we will copy the location of the bin folder.



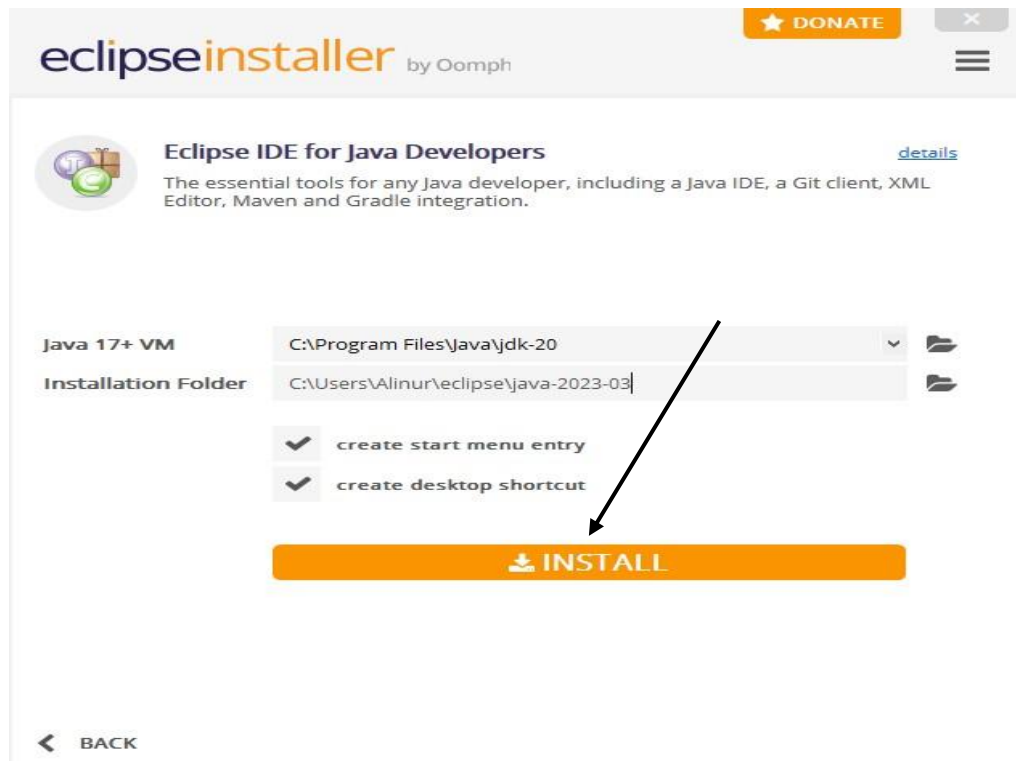
Step-13: Then click new, paste the path and then click everything ok. We have successfully installed the Java in our PC.



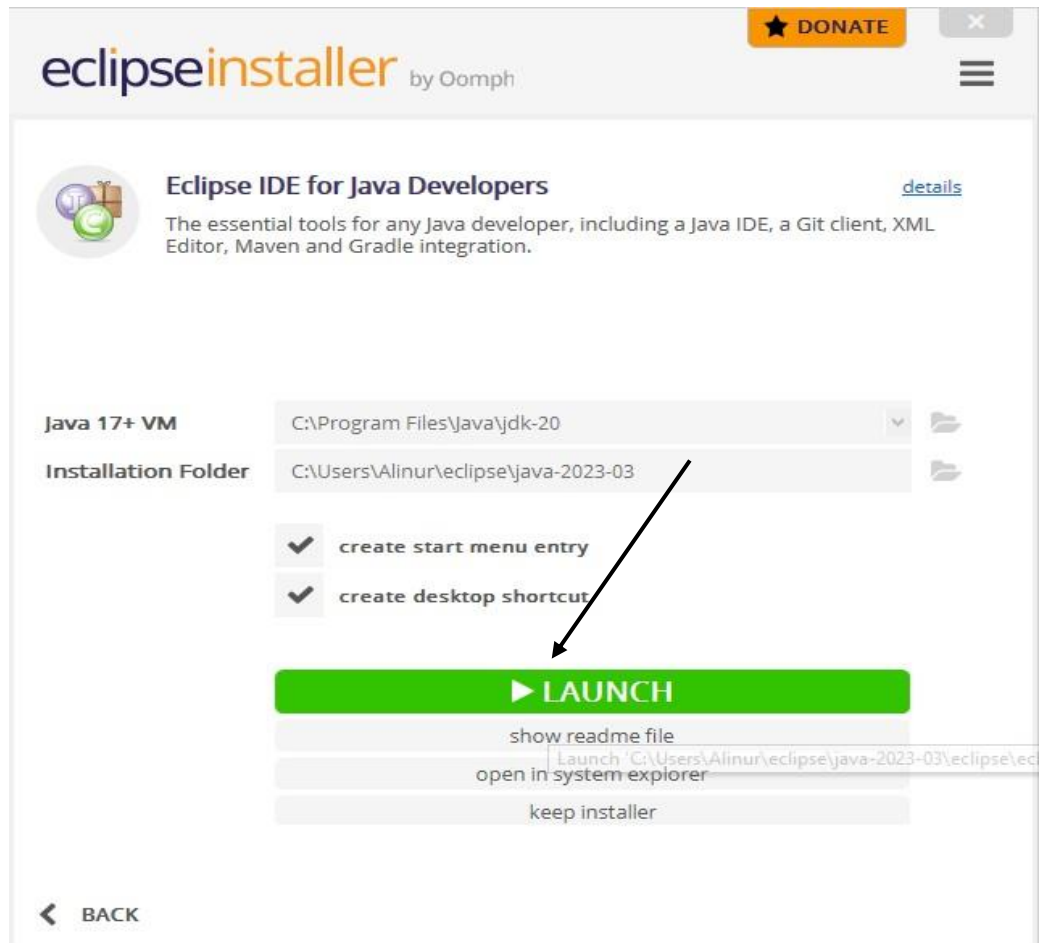
Step-14: Now we will install the Eclipse. So, we need to install the IDE by clicking on the “Eclipse IDE for Java Developers”. Because we’ll be using Java for testing our project.



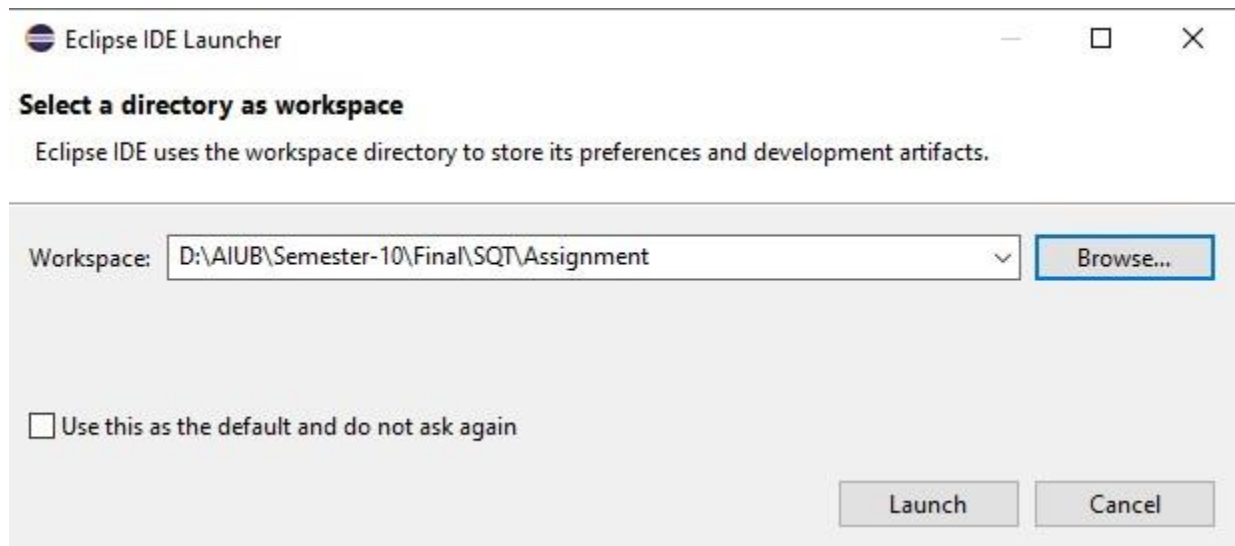
Step-15: Installation will begin after clicking on the Install button.



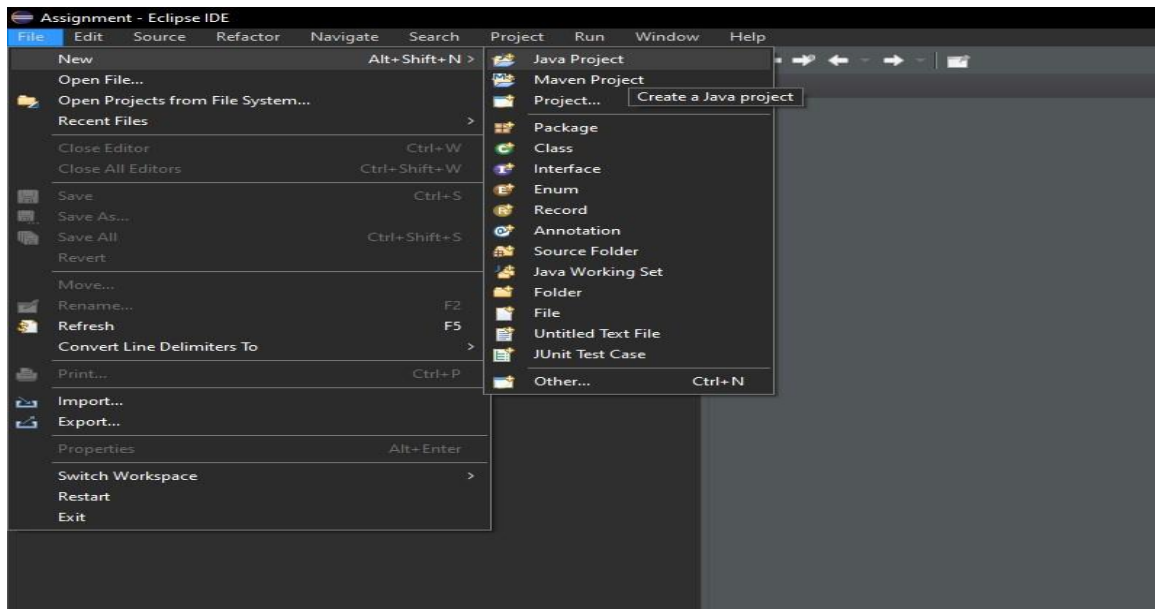
Step-16: Now, click launch to begin the Eclipse IDE.



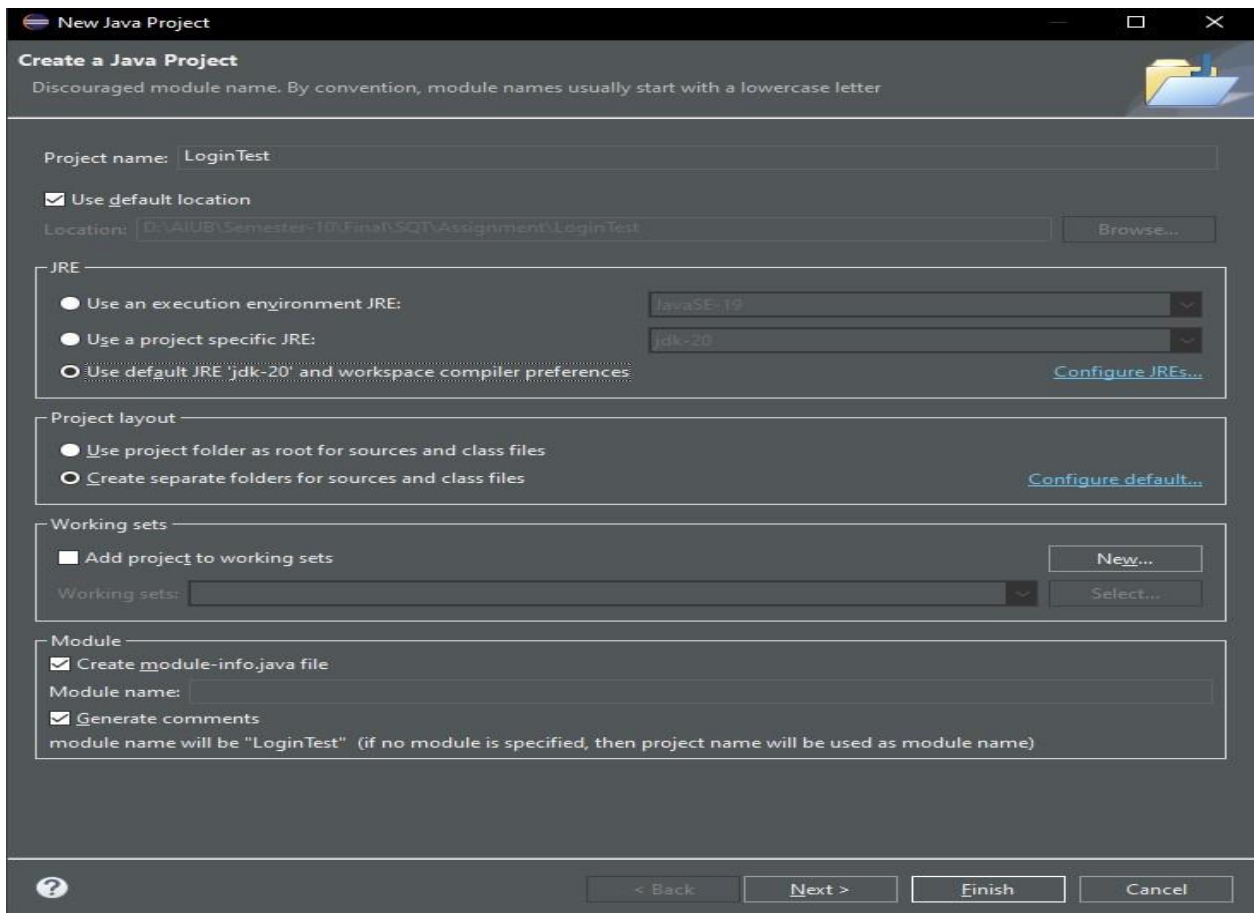
Step-17: Select a directory to save the location for the workspace.



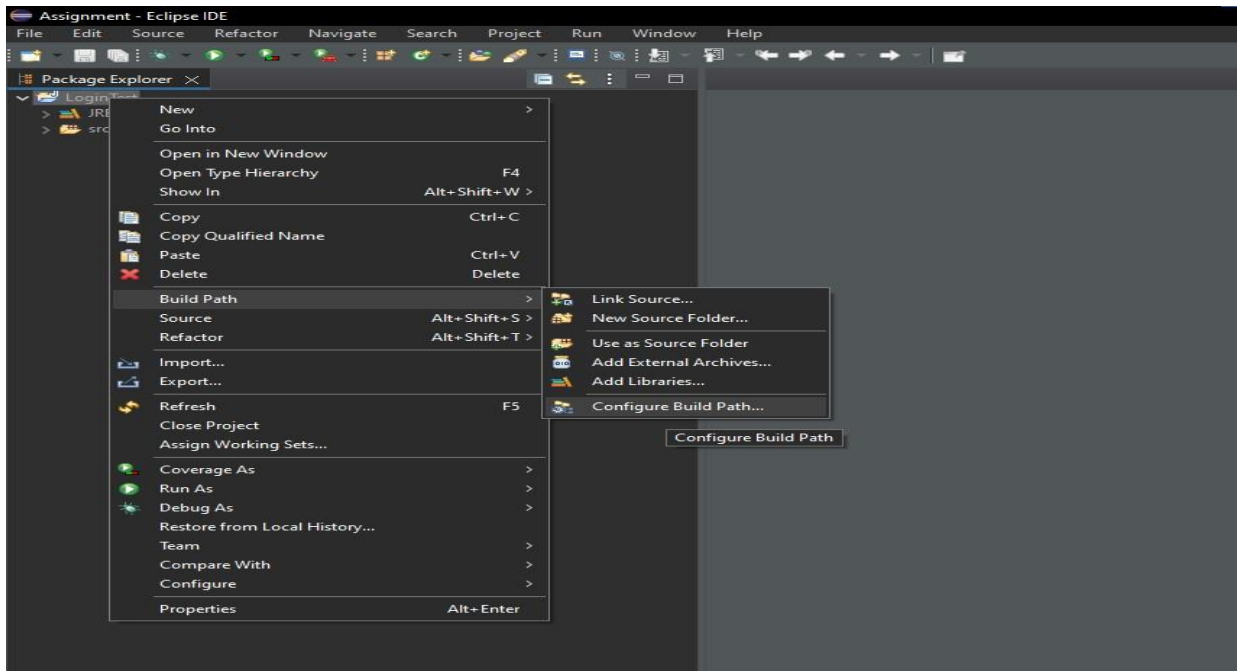
Step-18: By clicking on New, we can start a new Java project.



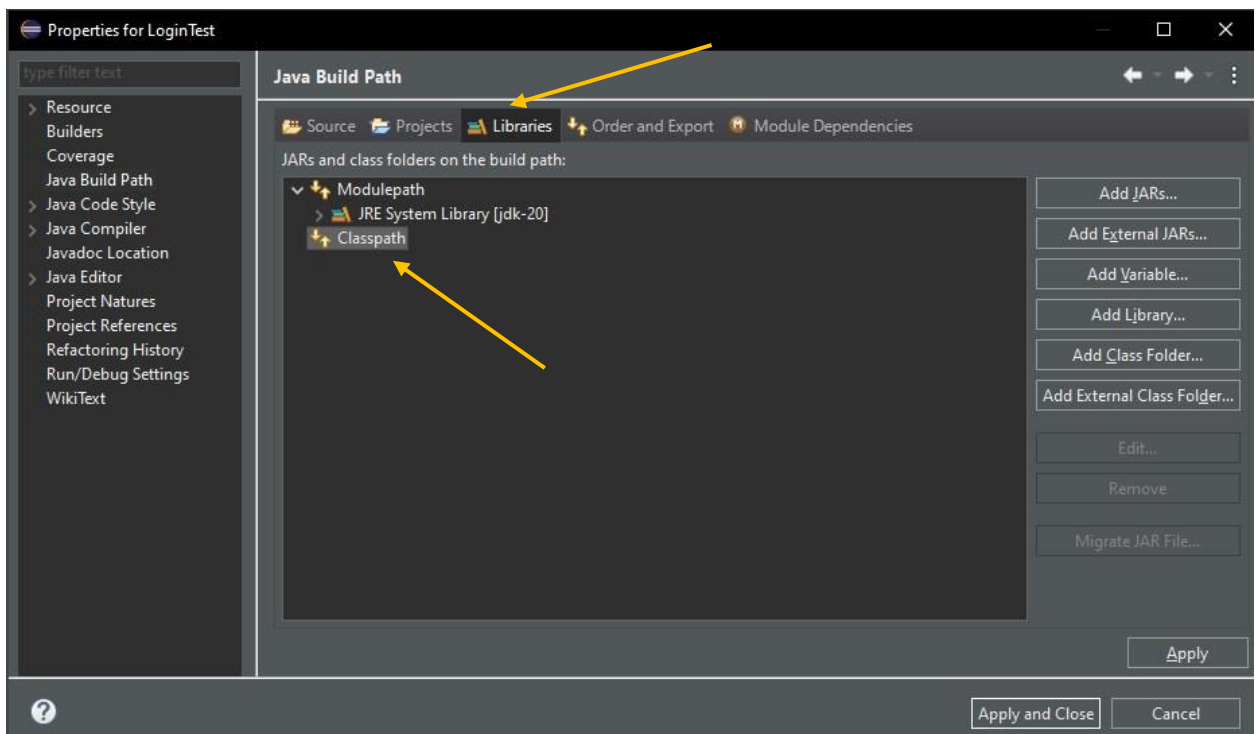
Step-19: After writing a project name and selecting the default JDK, we can click Finish button.



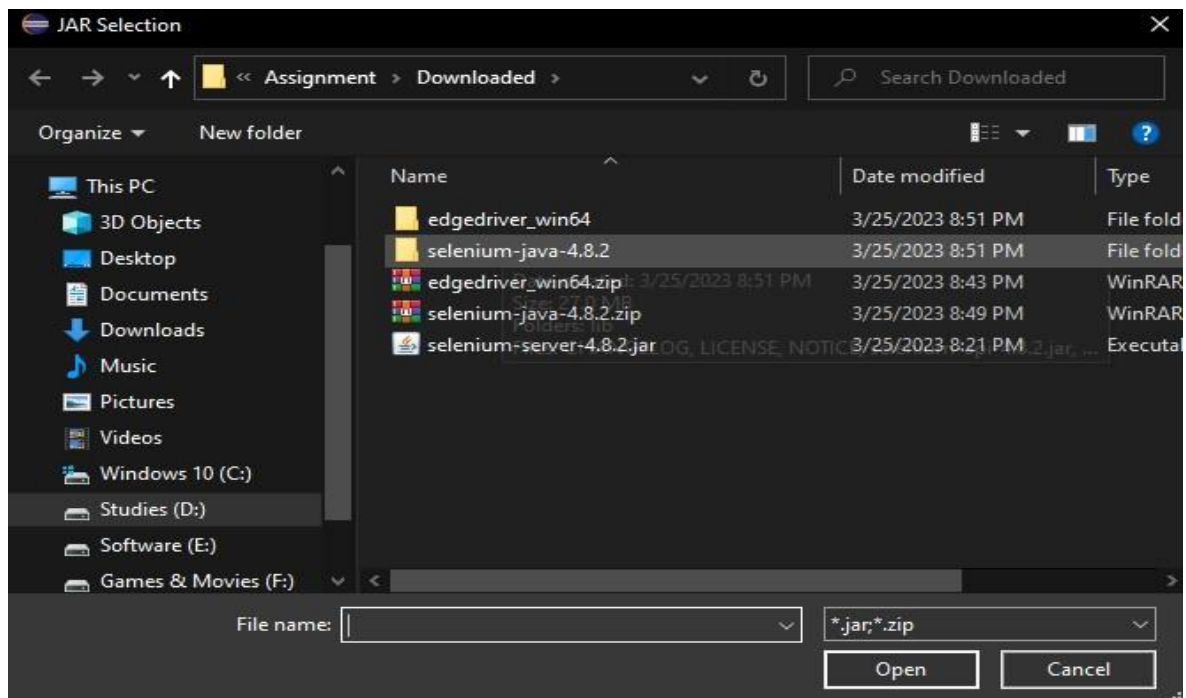
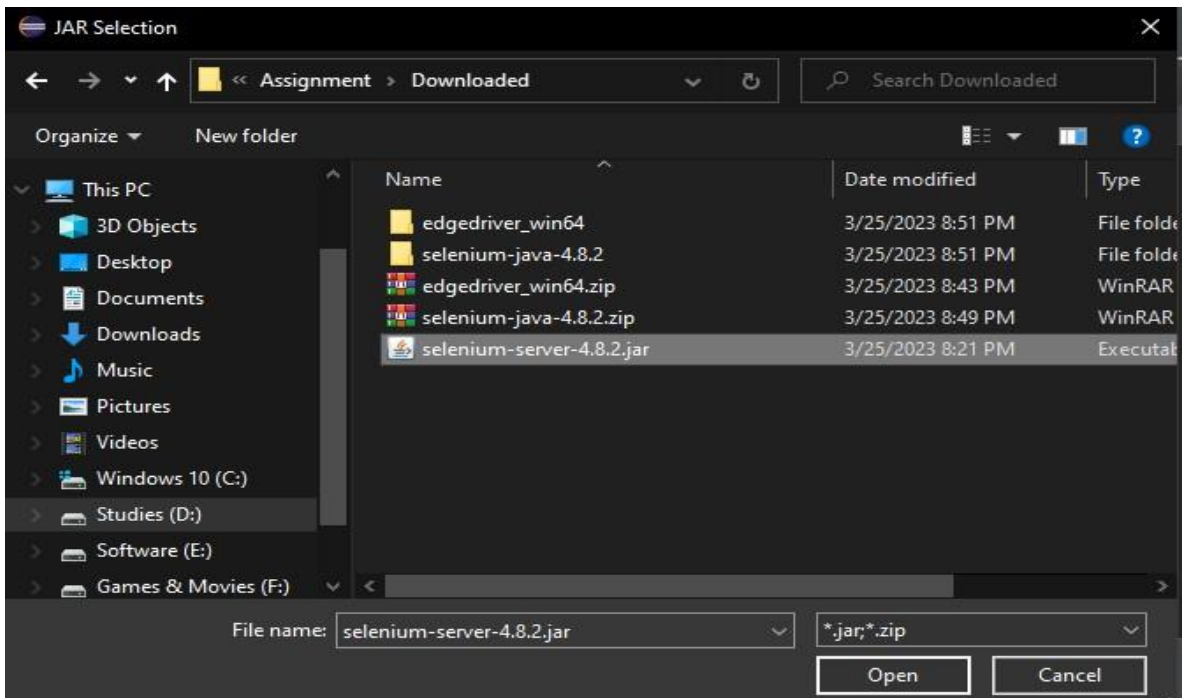
Step-20: Now, we need to add the selenium jar files into our project file. Right click on the project file, go to build path and then click on configure build path.

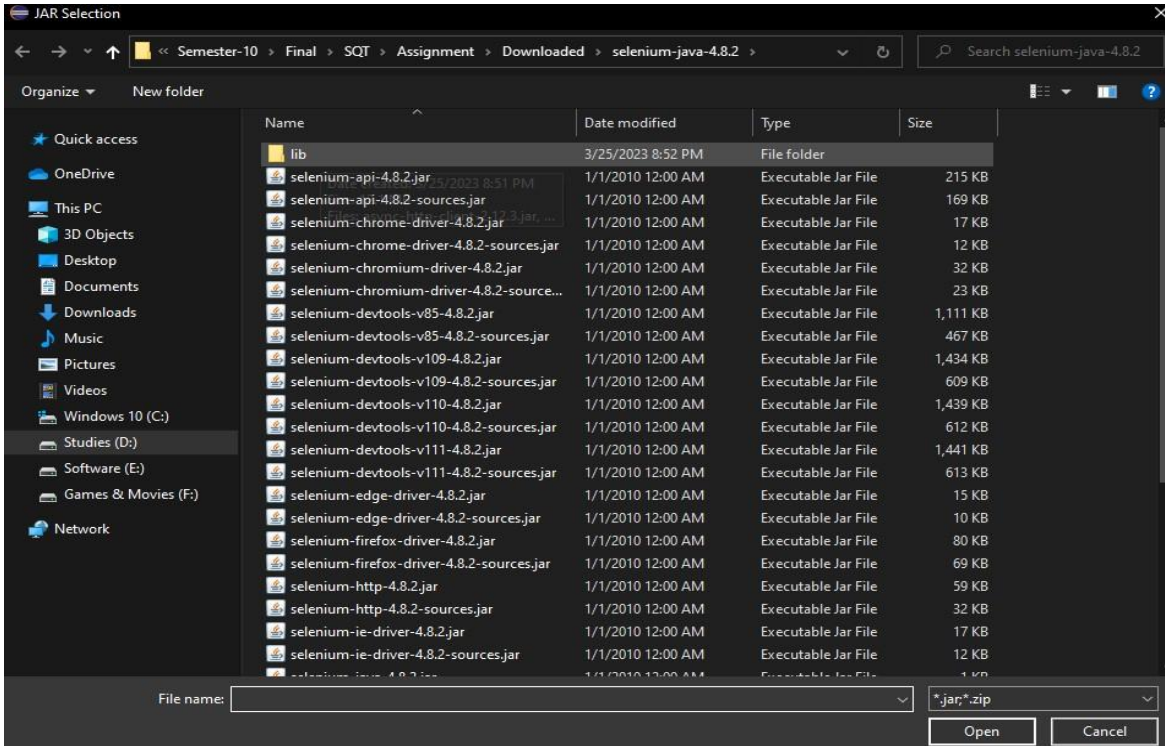
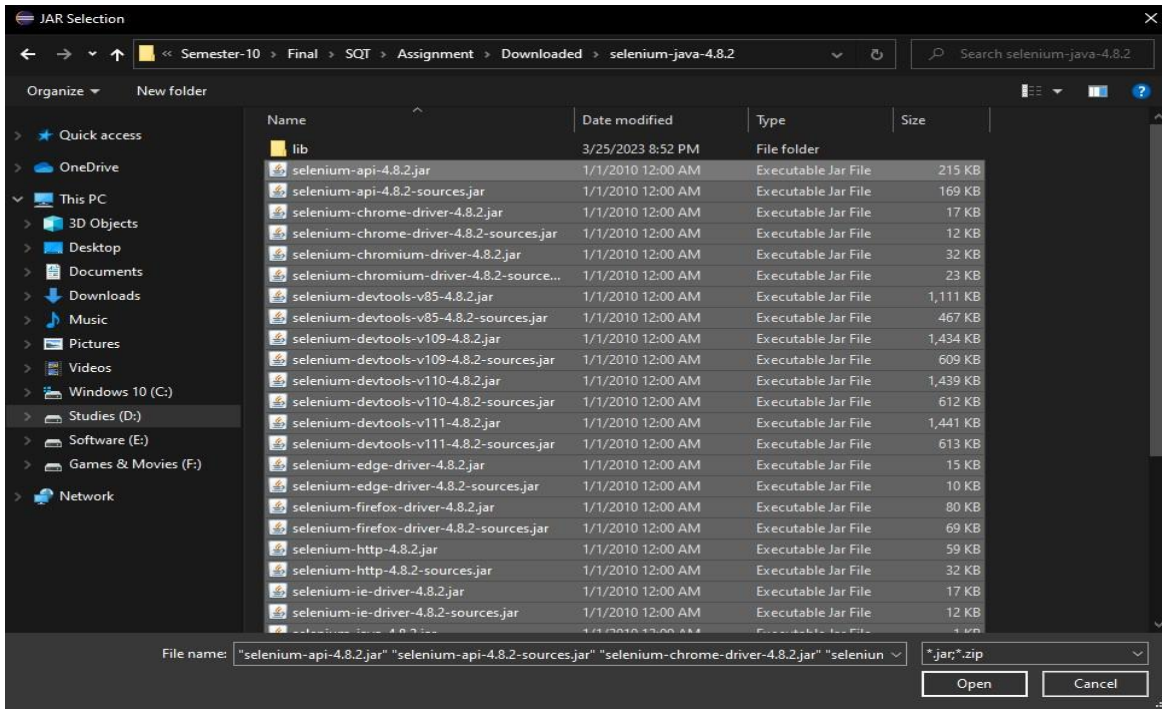


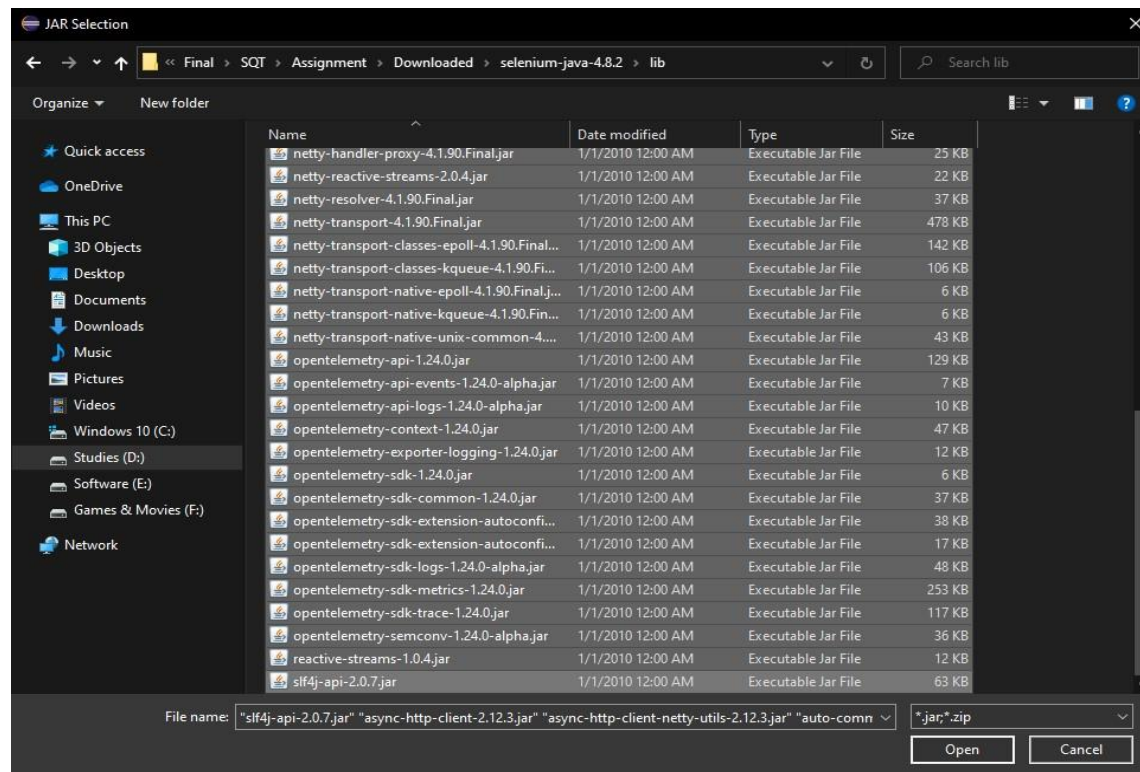
Step-21: Click on Libraries, then the Class path and after that click on Add External JARs to add the selenium jar files.



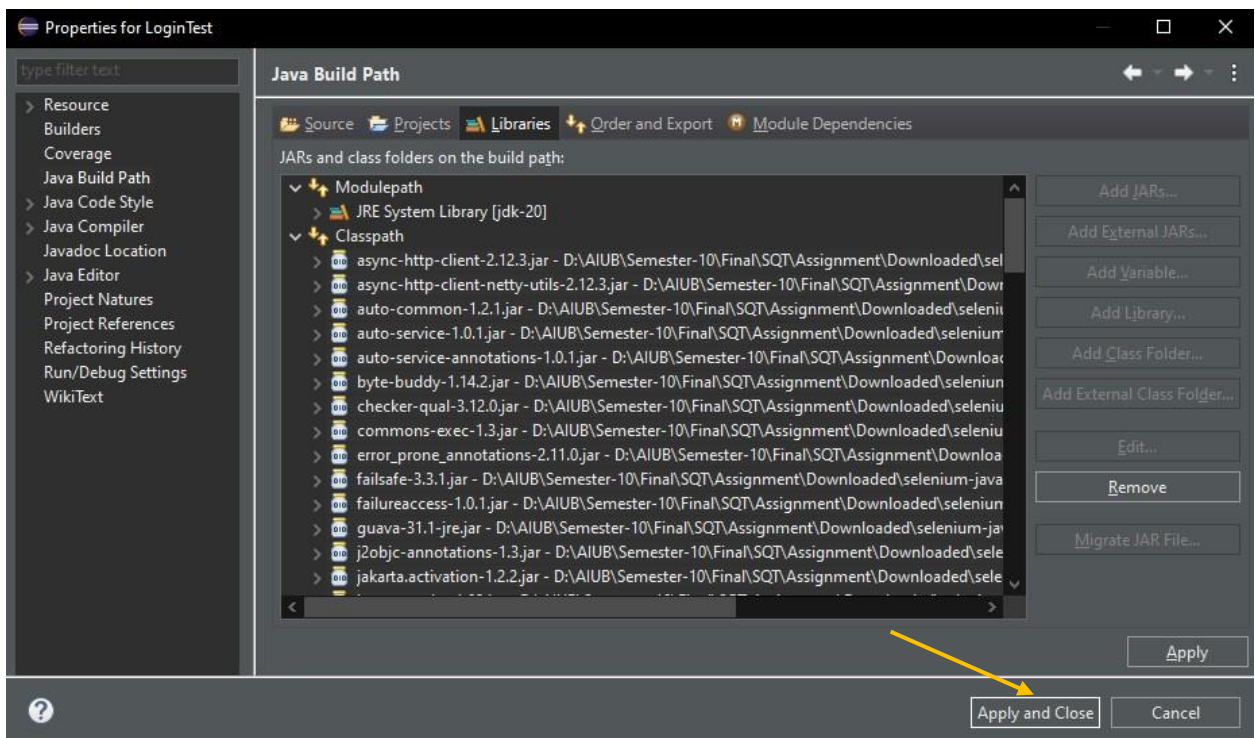
Step-22: Adding the selenium JAR files.



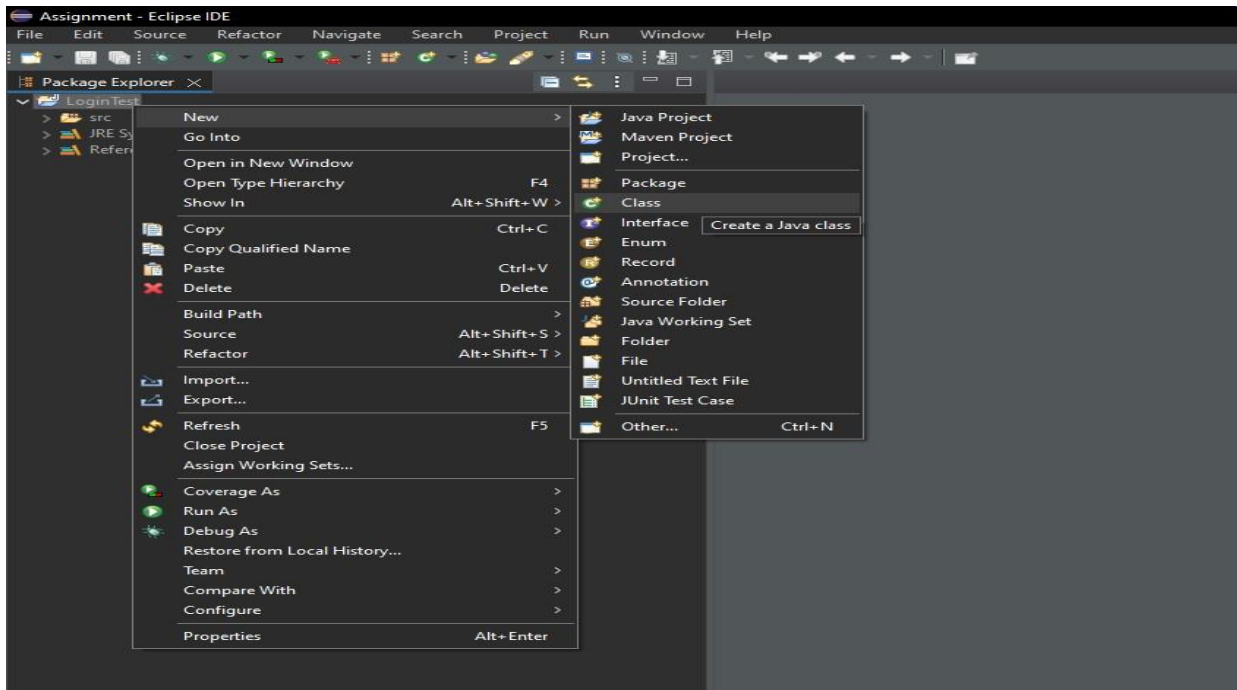




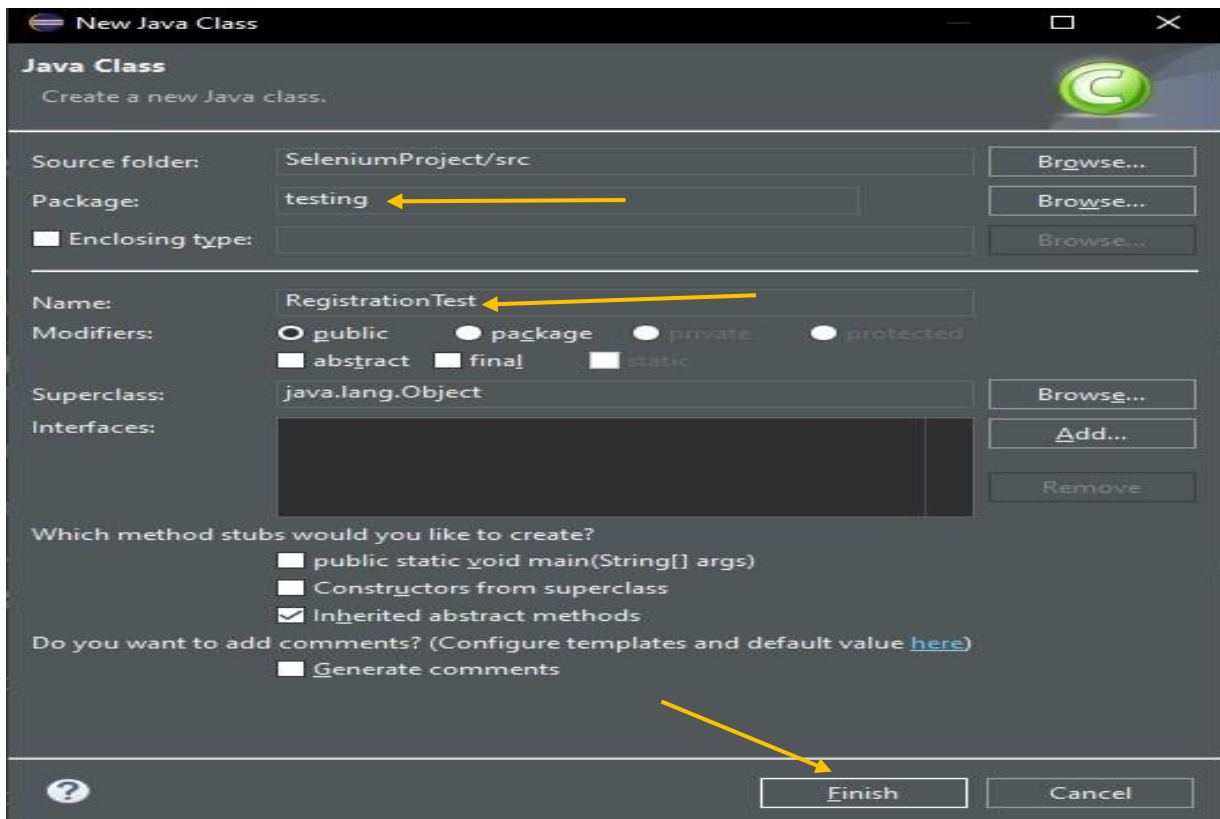
Step-23: Now we need to click apply and close.



Step-24: Let's create a class to write our code to test. Here we will be using Login and Registration page of our Web project.



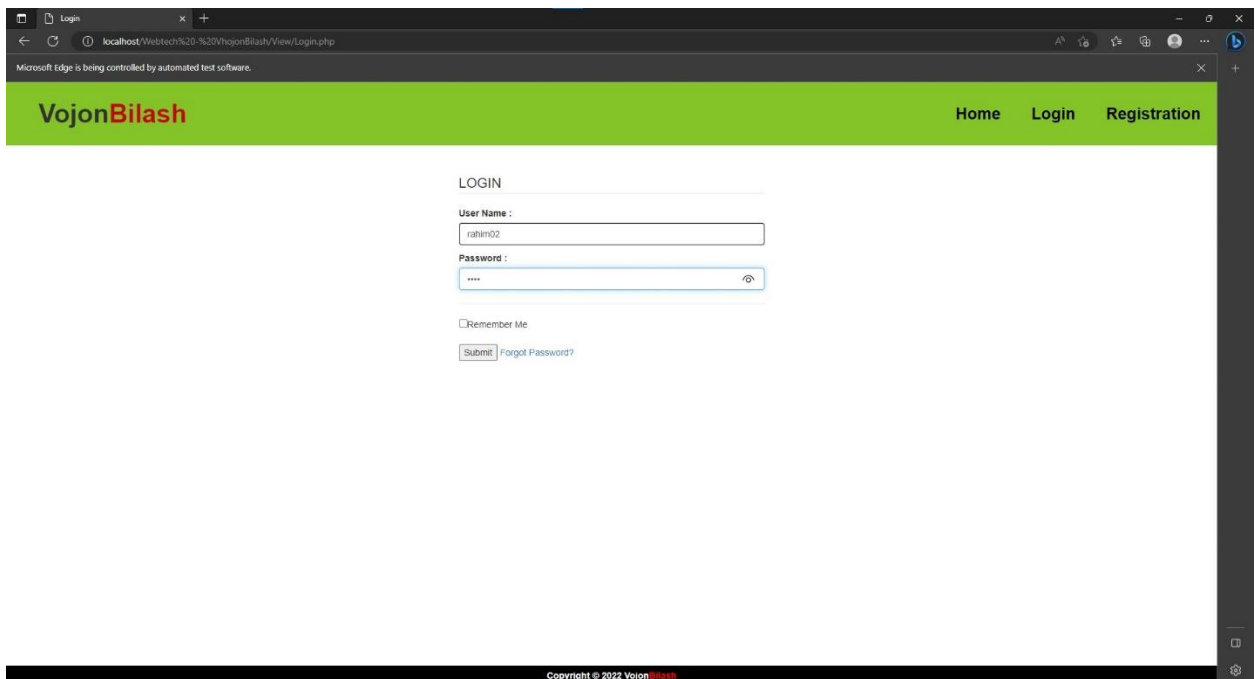
Step-25: Give a name of the package, class and then click finish.

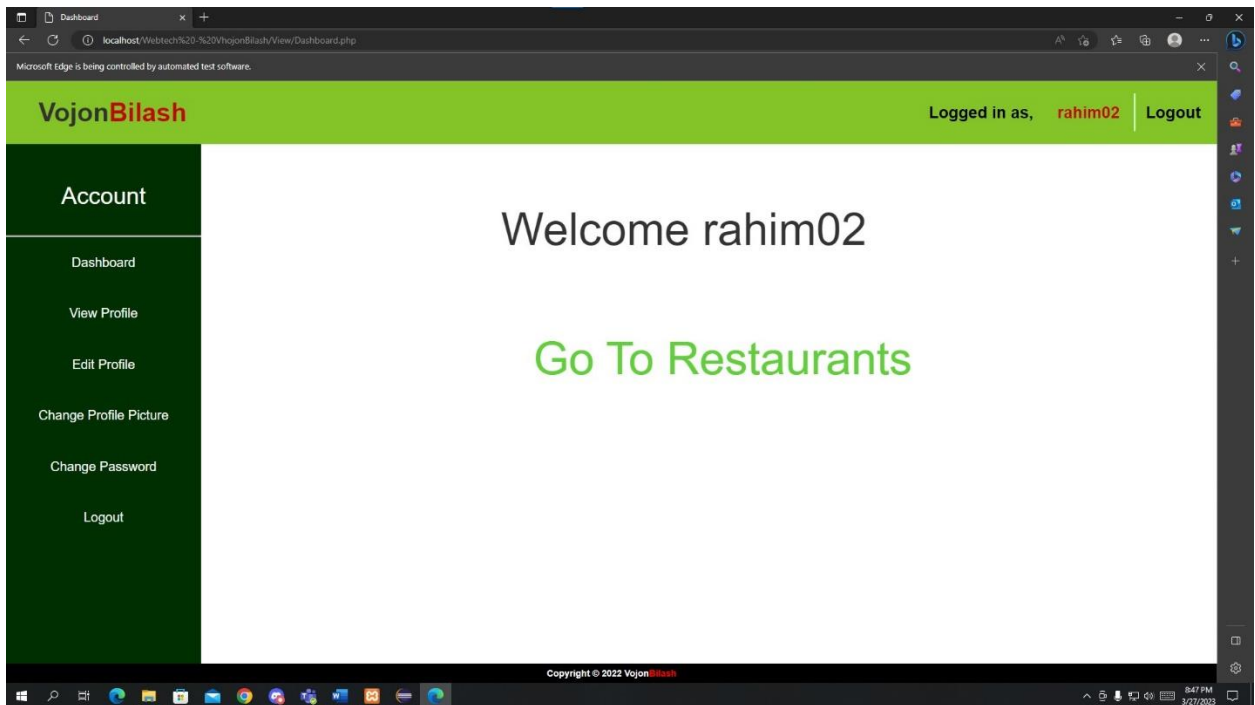


Step-26: Now let's write a code for the test and run to begin the test.

```
1 package testing;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.edge.EdgeDriver;
6
7 public class LoginTest {
8     public static void main(String[] args)
9         throws InterruptedException
10    {
11        {
12            System.setProperty("webdriver.edge.driver", "D:\\AIUB\\Semester-10\\Final\\SQT\\Assignment\\");
13            WebDriver driver = new EdgeDriver();
14            driver.get("http://localhost/Webtech%20-%20VhojonBilash/View/Login.php");
15            driver.manage().window().maximize();
16            driver.findElement(By.id("user")).sendKeys("rahim02");
17            Thread.sleep(1000);
18            driver.findElement(By.id("pass")).sendKeys("1234");
19            Thread.sleep(1000);
20            driver.findElement(By.id("submit")).click();
21            Thread.sleep(2000);
22            String at = "http://localhost/Webtech%20-%20VhojonBilash/View/Dashboard.php";
23            String et = driver.getCurrentUrl();
24            if(at.equalsIgnoreCase(et))
25            {
26                System.out.println("Test Successful");
27            }
28            else
29            {
30                System.out.println("Test Unsuccessful");
31            }
32        }
33    }
34 }
```

Step-28: When the IDE will start the automatic testing process, the project will also be loaded automatically in the browser and will start the testing. Like in the login page, the username and password will be automatically written by the IDE.





Step-29: If everything is fine and if the login is successful, then the console will show us a message “Test Successful”.

