



Assignment

**ASSIGNMENT TITLE: AUTOMATION TESTING USING
SELENIUM**

COURSE: SOFTWARE QUALITY AND TESTING

INSTRUCTOR: ABHIJIT BHOWMIK

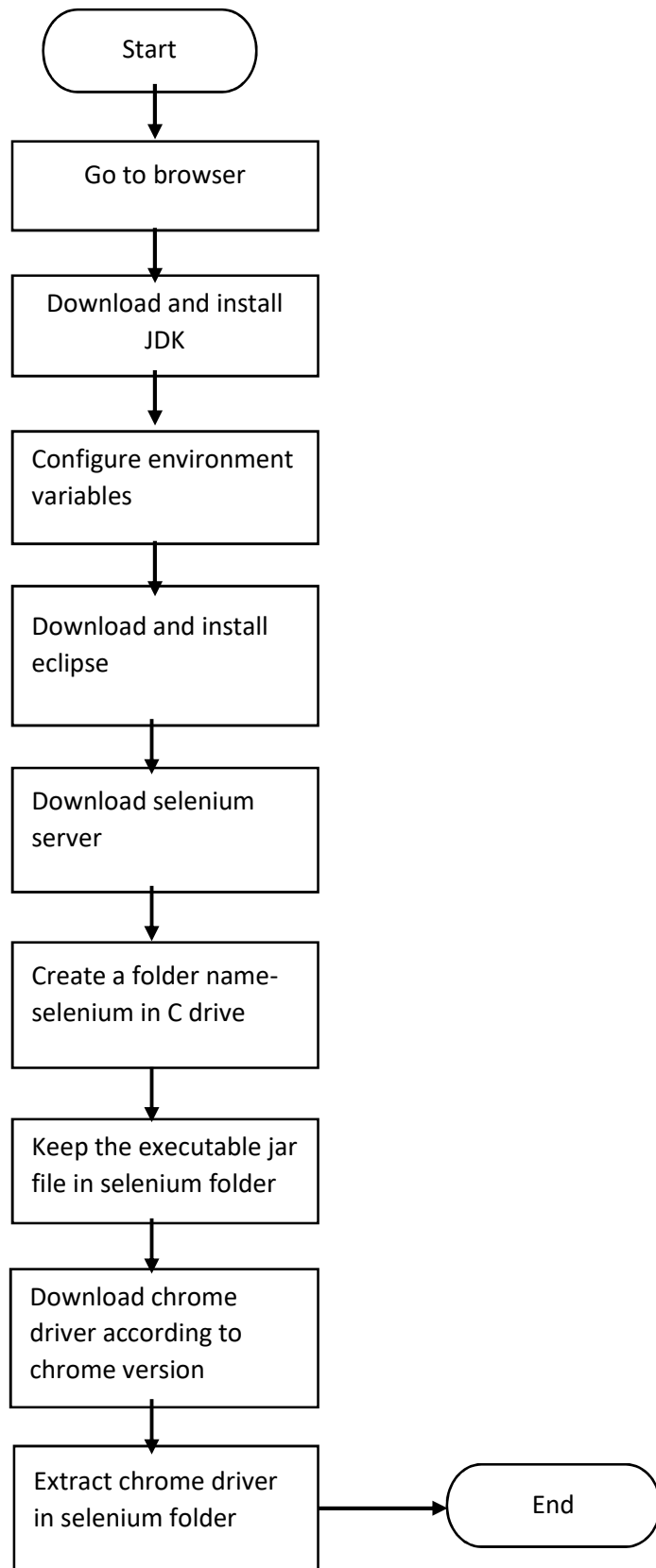
DEPARTMENT: BSc. CSE

SECTION: E

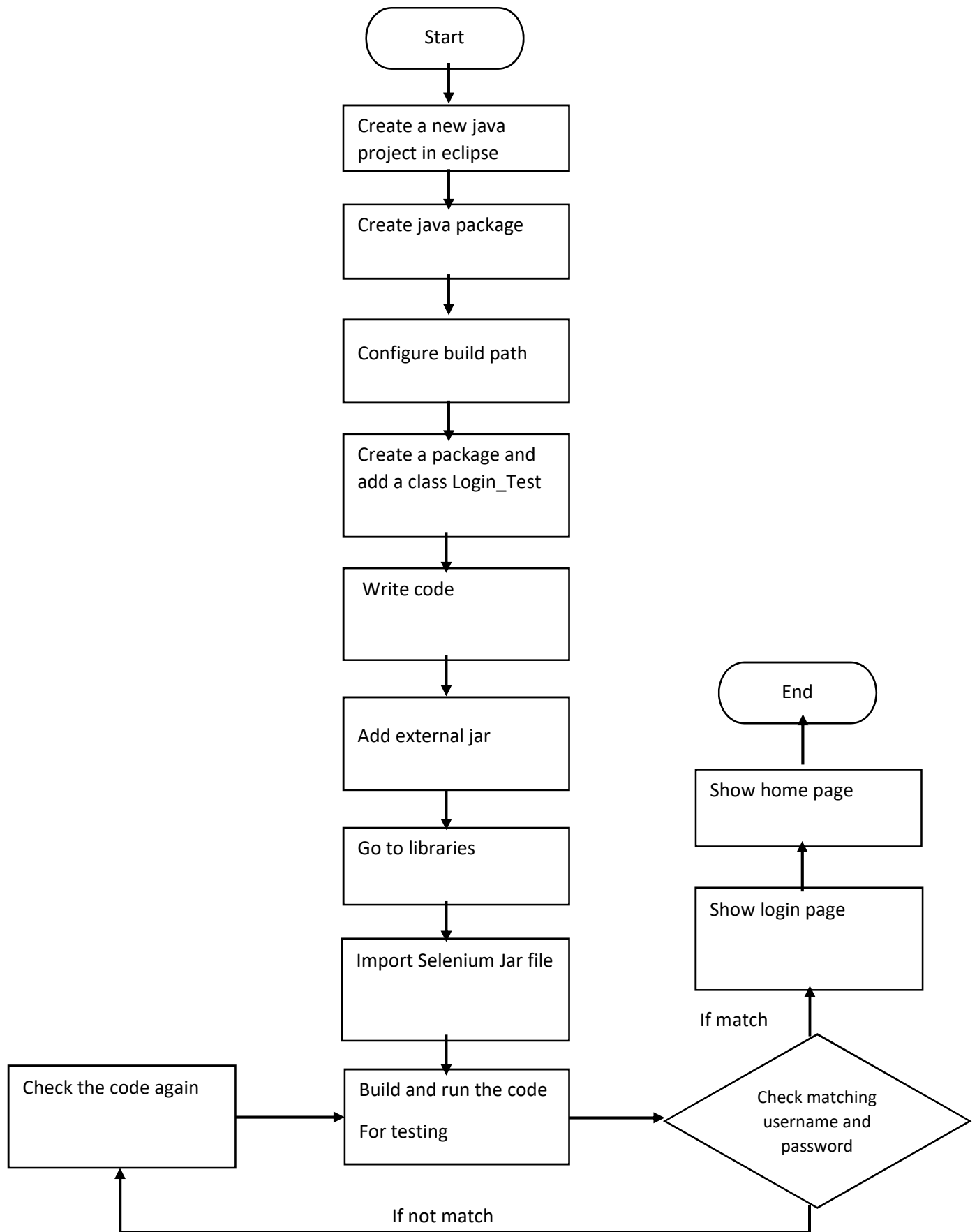
Submitted By:

| NAME | ID |
|--------------------|-------------------|
| BASAK, RITU | 19-40179-1 |

Flowchart for selenium WebDriver setup:



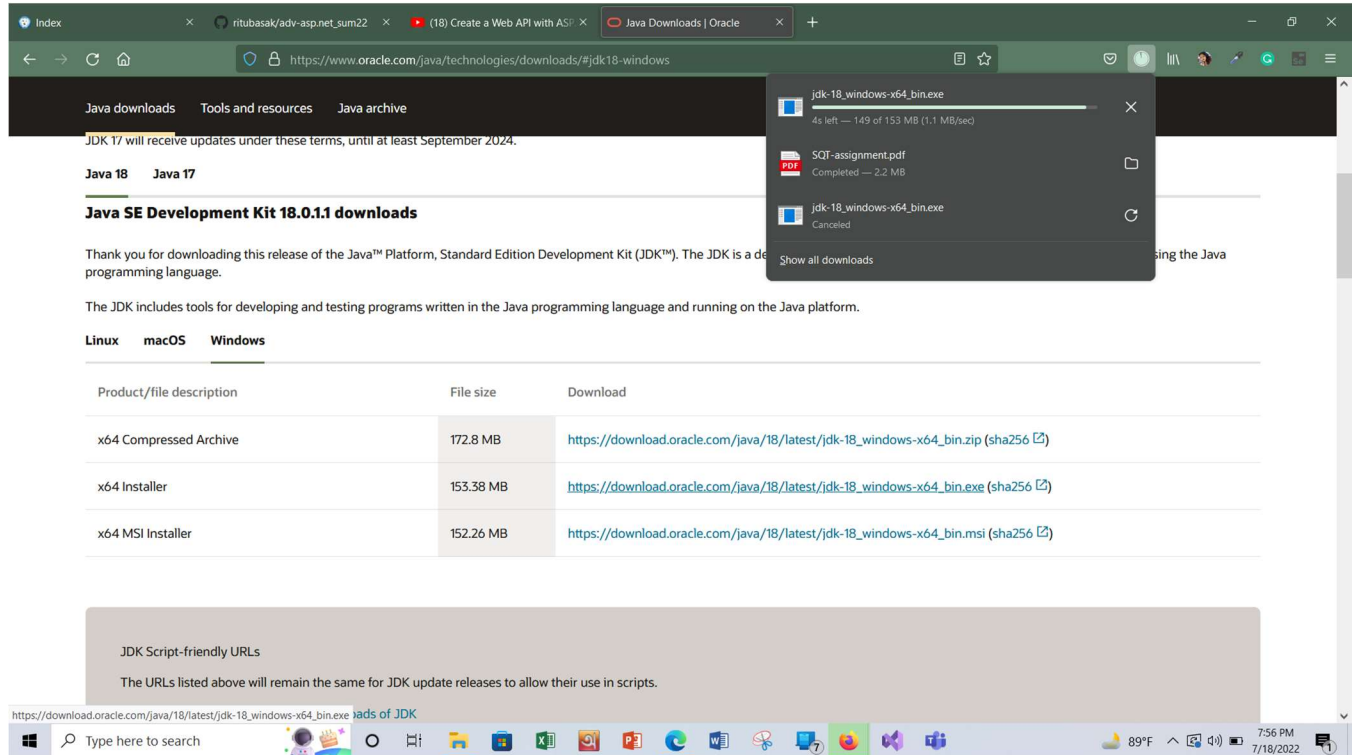
Flowchart for testing using selenium:



Explanation:

Explanation:

Java installation process:



Index x ritubasak/adv-asp.net_sum22 x (18) Create a Web API with ASP.NET Core x Java Downloads | Oracle x +

https://www.oracle.com/java/technologies/downloads/#jdk18-windows

Java downloads Tools and resources Java archive

JDK 17 will receive updates under these terms, until at least September 2024.

Java 18 Java 17

Java SE Development Kit 18.0.1.1 downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development kit for the Java programming language.

The JDK includes tools for developing and testing programs written in the Java programming language and running on the Java platform.

Linux macOS Windows

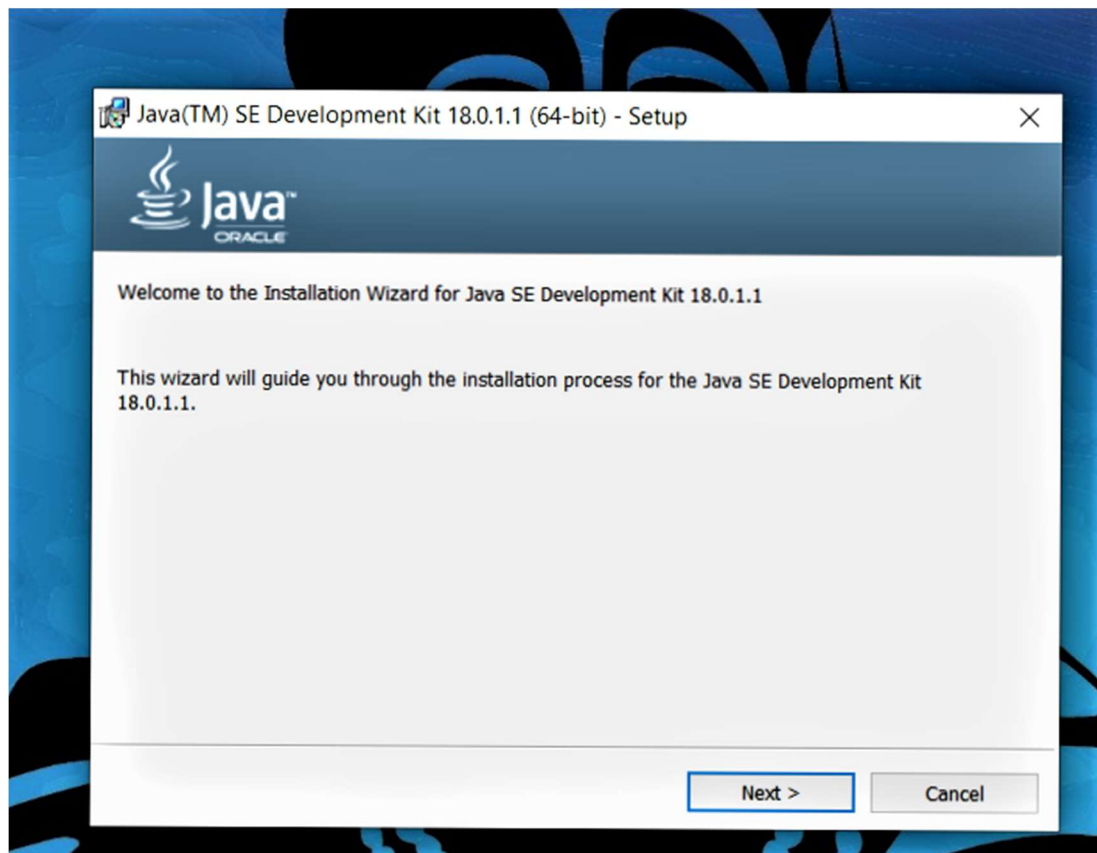
| Product/file description | File size | Download |
|--------------------------|-----------|--|
| x64 Compressed Archive | 172.8 MB | https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.zip (sha256) |
| x64 Installer | 153.38 MB | https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.exe (sha256) |
| x64 MSI Installer | 152.26 MB | https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.msi (sha256) |

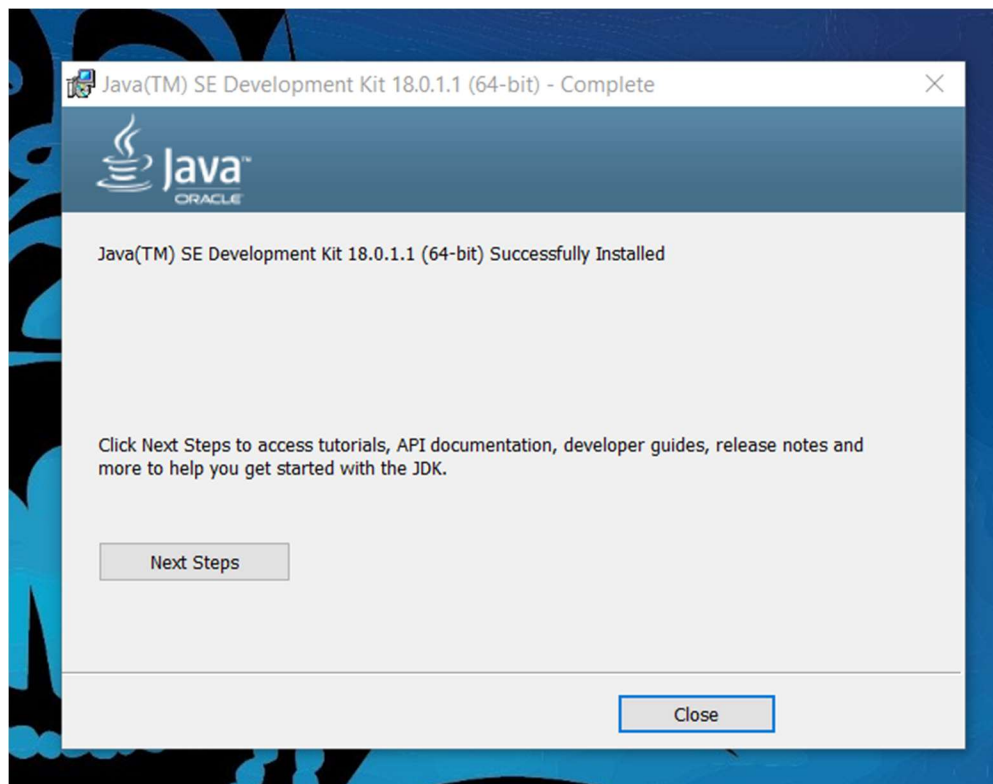
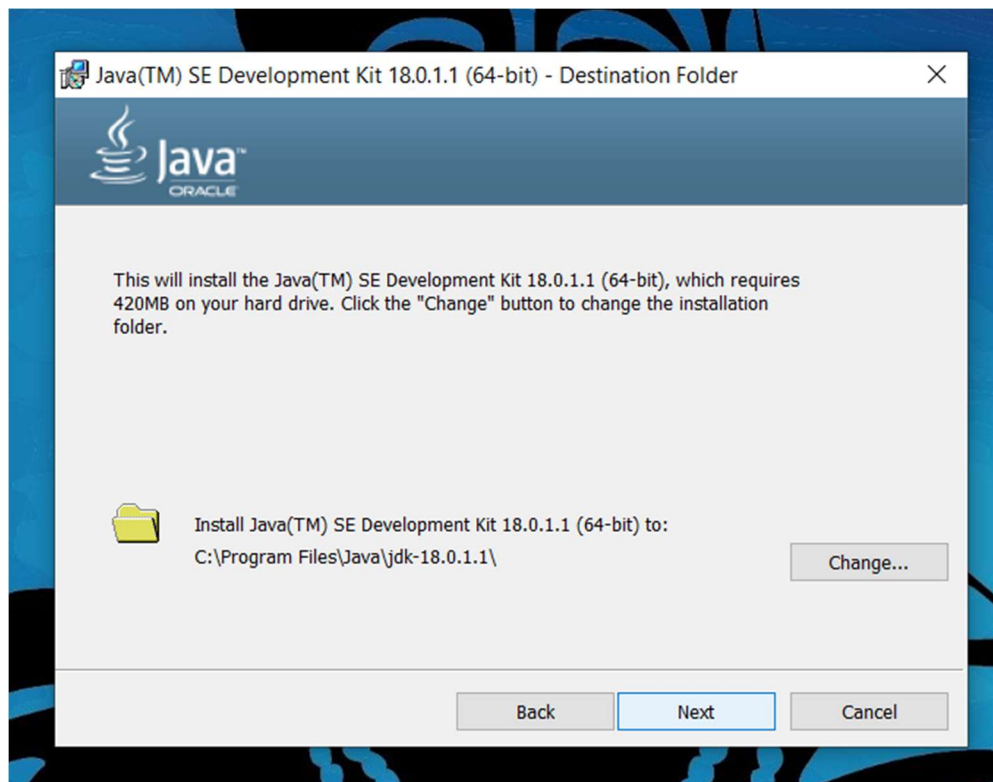
JDK Script-friendly URLs

The URLs listed above will remain the same for JDK update releases to allow their use in scripts.

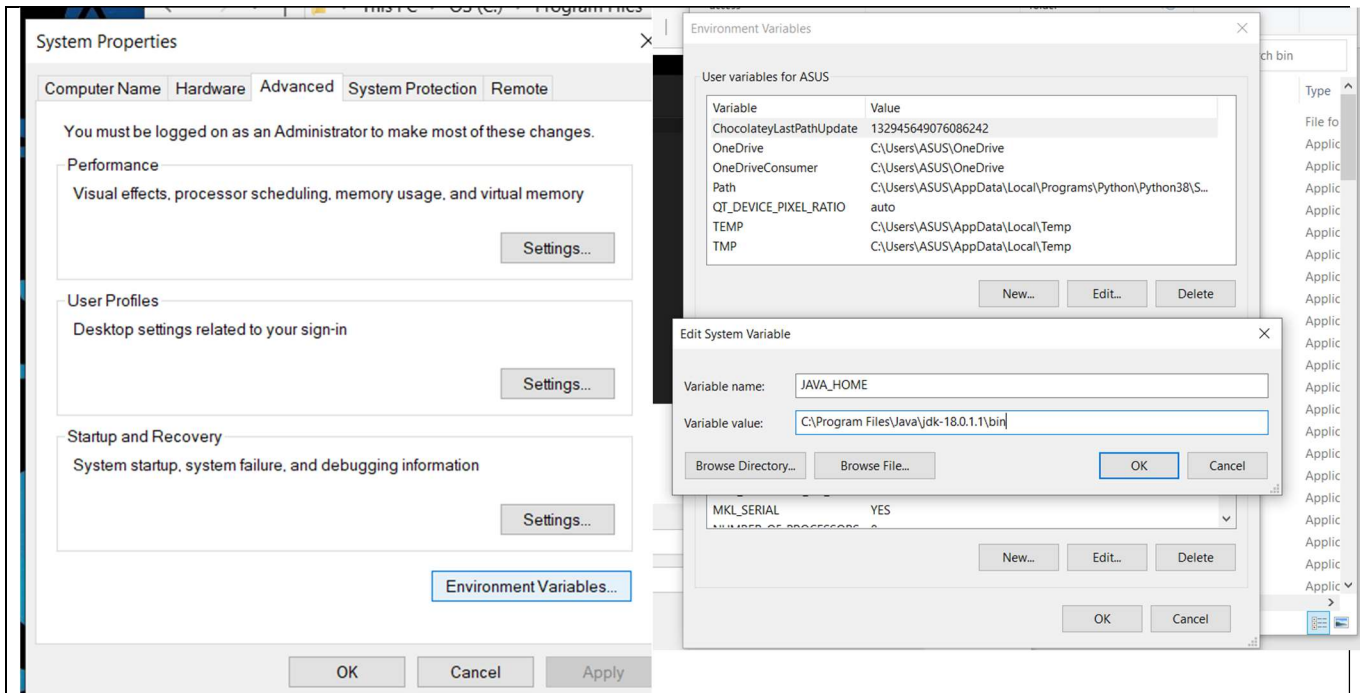
https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.exe

Windows taskbar: Type here to search, 89°F, 7:56 PM, 7/18/2022





Adding java path in system environment:

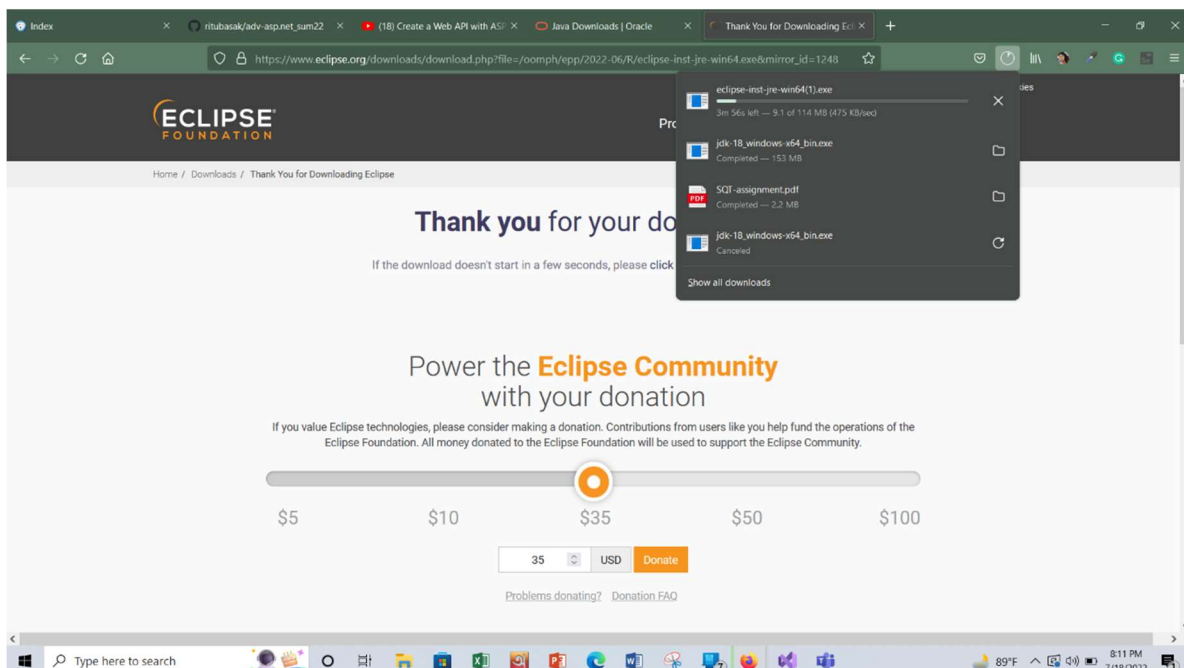


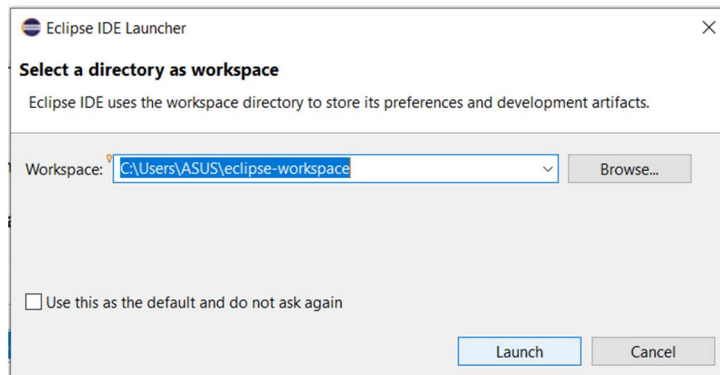
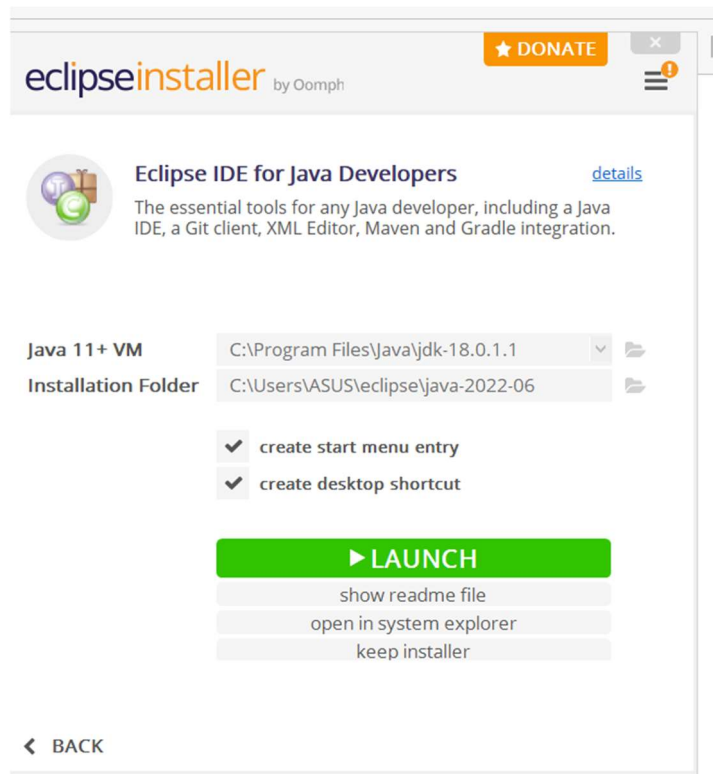
```
Command Prompt
Microsoft Windows [Version 10.0.19044.1826]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS>java -version
java version "18.0.1.1" 2022-04-22
Java(TM) SE Runtime Environment (build 18.0.1.1+2-6)
Java HotSpot(TM) 64-Bit Server VM (build 18.0.1.1+2-6, mixed mode, sharing)

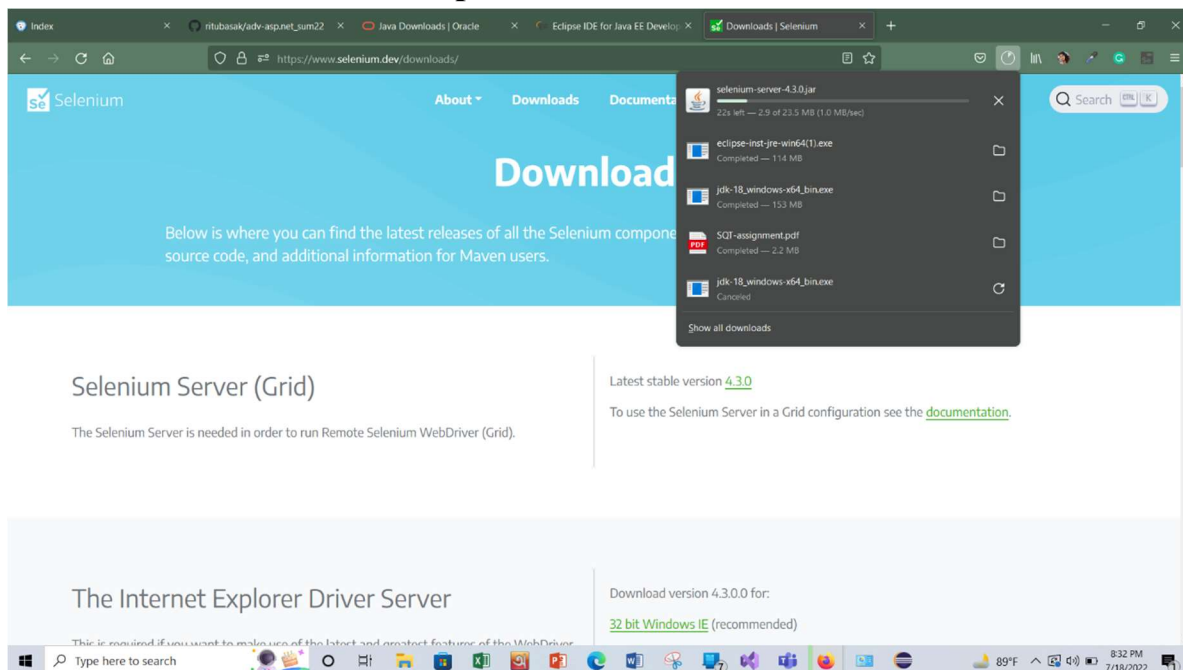
C:\Users\ASUS>
```

Eclipse installation process:





Selenium download process:



The screenshot shows a web browser window with the address bar displaying `https://chromedriver.storage.googleapis.com/index.html?path=/103.0.5060.53/`. The page title is "Index of /103.0.5060.53/". The main content is a table listing files and directories:

| Name | Last modified | Size | ETag |
|---|---------------------|--------|----------------------------------|
| Parent Directory | - | - | - |
| chromedriver_linux64.zip | 2022-06-22 08:40:24 | 6.73MB | 7024d17105fd68cd6a9dae9d7c184ff8 |
| chromedriver_mac64.zip | 2022-06-22 08:40:27 | 7.99MB | b36af7477b93a3dd5e9d8a2eddc9c9ba |
| chromedriver_mac64_m1.zip | 2022-06-22 08:40:29 | 7.28MB | c4261b81ac647c38541ee728301718e5 |
| chromedriver_win32.zip | 2022-06-22 08:40:32 | 6.12MB | 797244dcadc6012093c8955463c1c949 |
| notes.txt | 2022-06-22 08:40:38 | 0.00MB | 266a503f3ac359d6ddc9aeb9122c3354 |

Overlaid on the right is a file explorer window showing a list of downloaded files:

- chromedriver_win32.zip (55 left — 3.0 of 6.1 MB (1.0 MB/sec))
- selenium-server-4.3.0.jar (Completed — 23.5 MB)
- eclipse-inst-jre-win64(1).exe (Completed — 114 MB)
- jdk-18_windows-x64_bin.exe (Completed — 153 MB)
- SQT-assignment.pdf (Completed — 2.2 MB)

Below the browser window is a file explorer window showing the directory structure: `PC > OS (C:) > Users > ritu > Selenium >`. The files listed are:

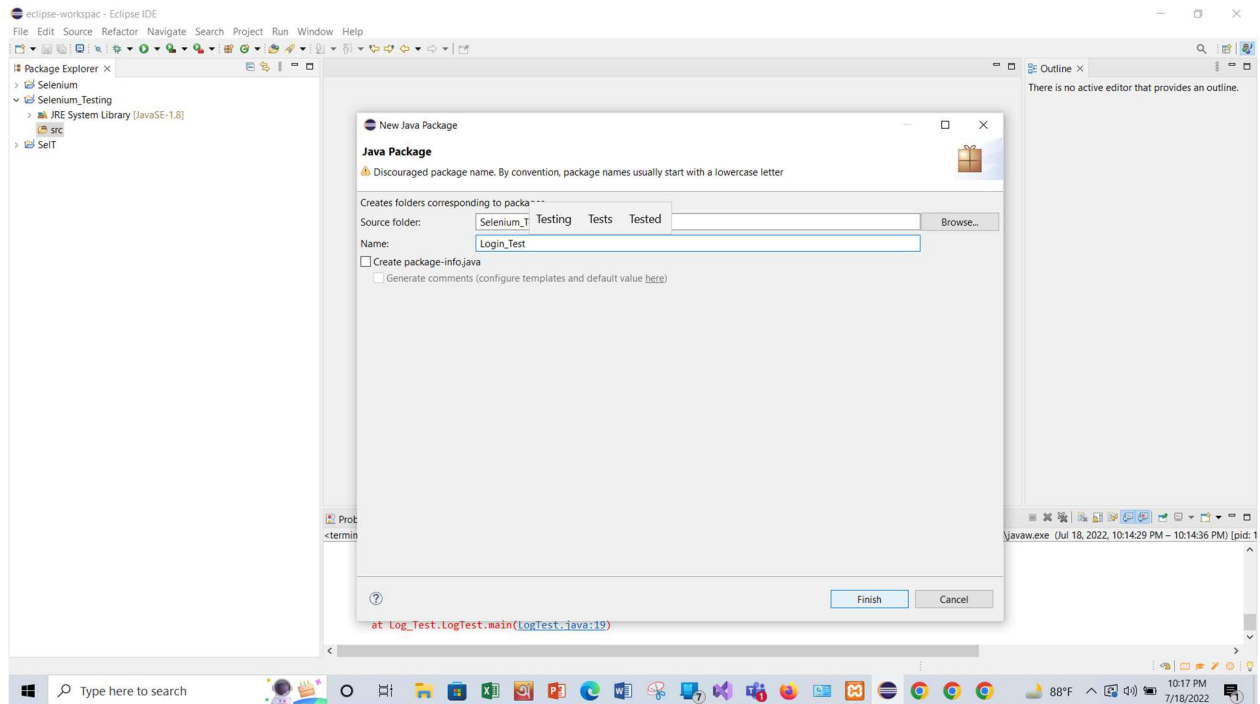
| Name | Date modified | Type | Size |
|---------------------------|-------------------|---------------------|-----------|
| chromedriver_win32 | 7/18/2022 8:38 PM | File folder | |
| selenium-server-4.3.0.jar | 7/18/2022 8:32 PM | Executable Jar File | 24,106 KB |

We built a project namely login system for testing. We build and run a java project where user will give provided username and password from the code. If the user gives matched username and password then user will go directly to the Donation page with logged in username. If does not match the username and password, user will not able to go to the Donation page.

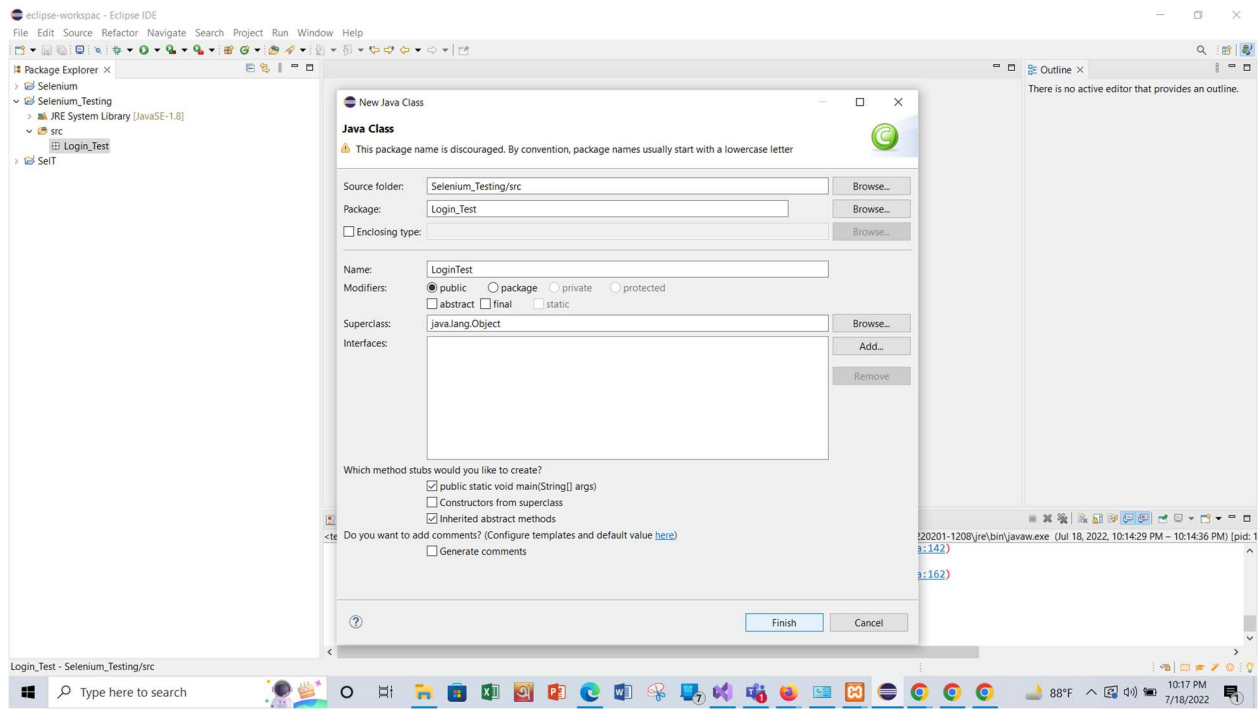
We used eclipse for this testing using selenium. Here at first, we build a java project.

The screenshot shows the "New Java Project" dialog box in the Eclipse IDE. The "Project name" field is set to "Selenium_Testing". The "Location" is set to "C:\Users\ASUS\workspace\Selenium_Testing". The "JRE" section has "Use an execution environment JRE:" selected, with "JavaSE-1.8" chosen from the dropdown. The "Project layout" section has "Create separate folders for sources and class files" selected. The "Working sets" section has "Add project to working sets" unchecked. The "Module" section has "Create module-info.java file" unchecked. The "Finish" button is highlighted.

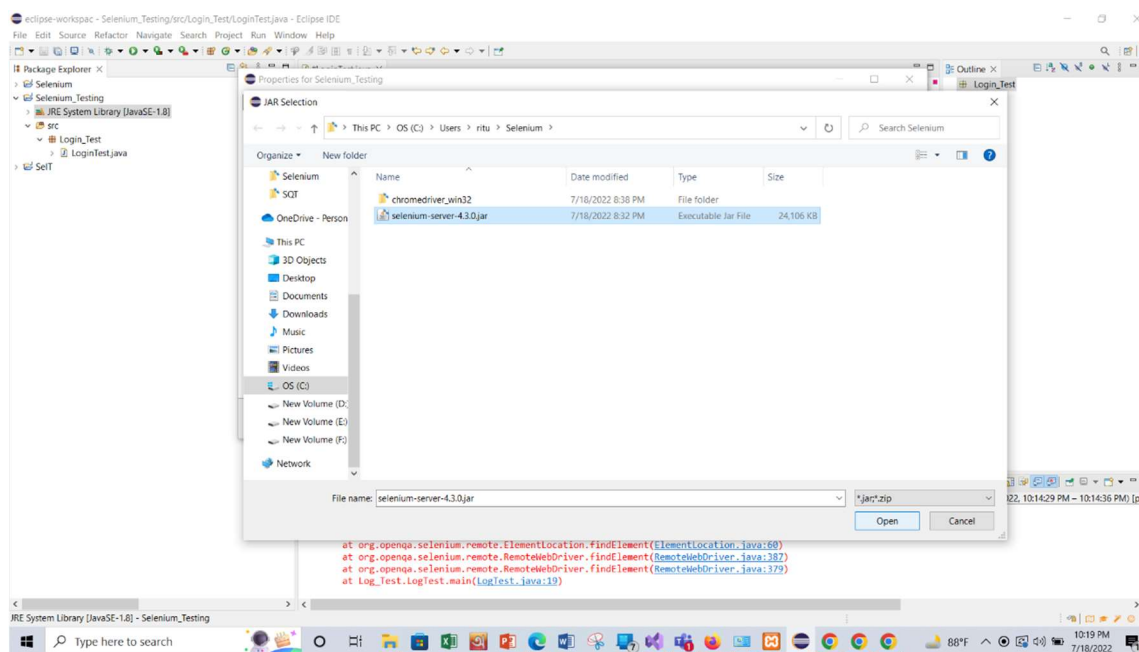
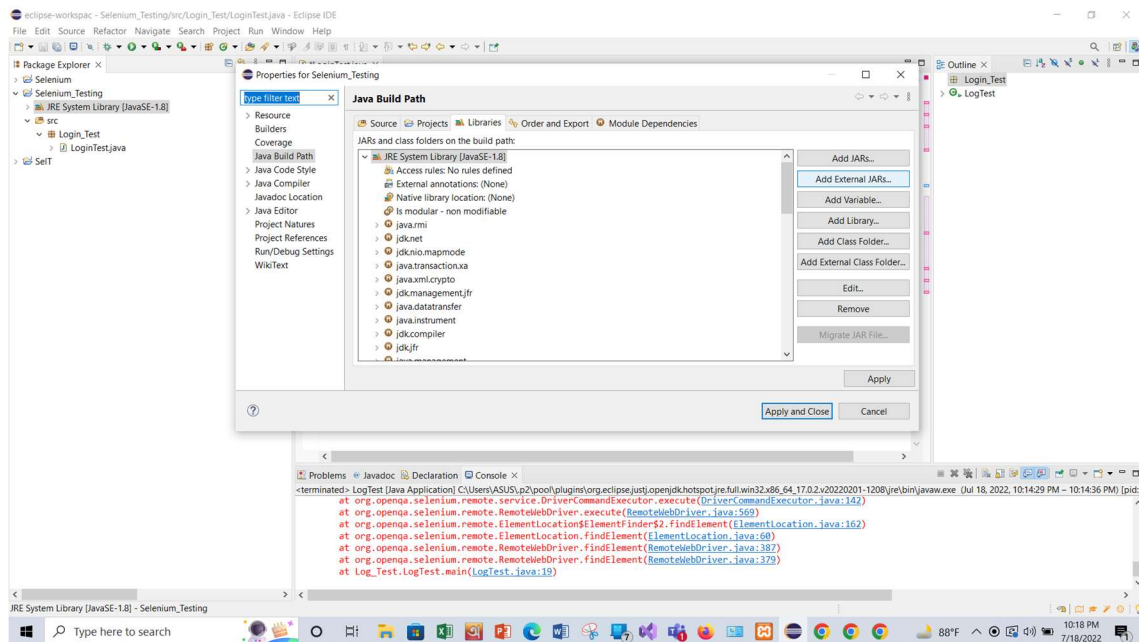
Then we created a java package for the testing.



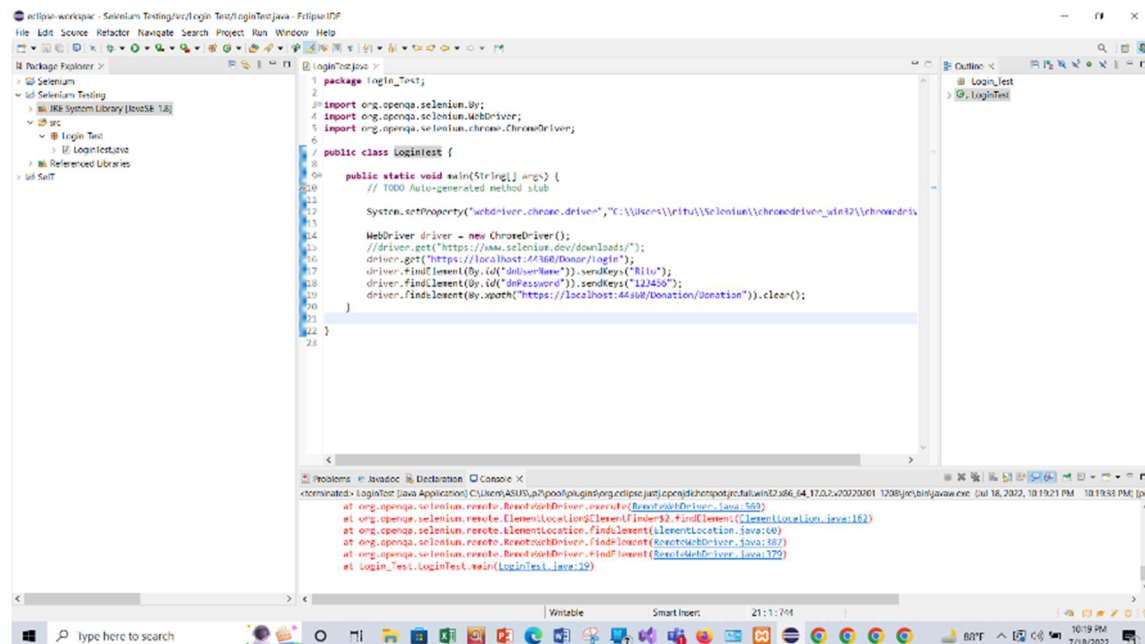
After that, we added a class in the created package to write the code.



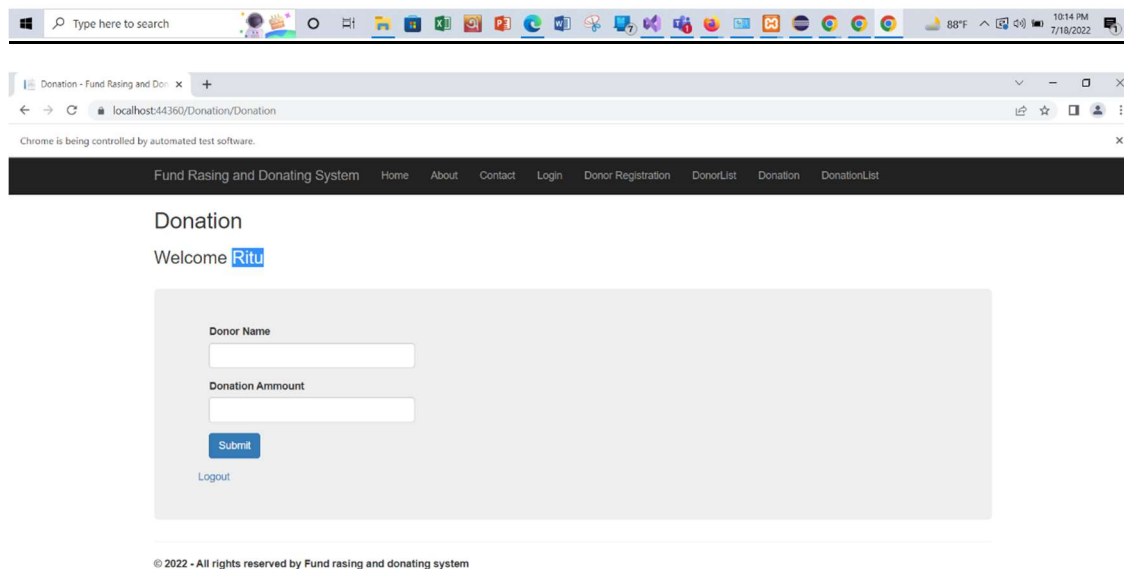
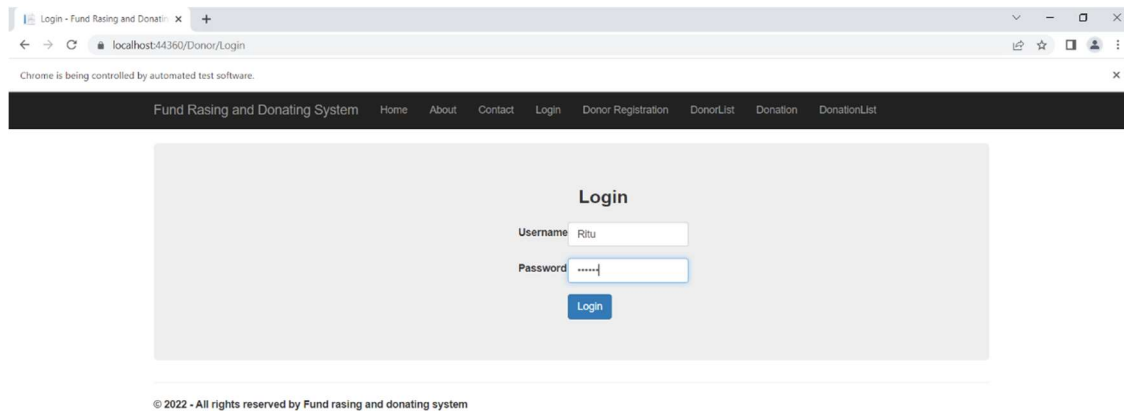
Then we added selenium jar file in the build path (in external jar) of the project.



We wrote the code in the class and imported selenium jar file and chromedriver.



Here the project of asp.net “Donor Login” run successfully and opened chrome server with login page.



Using the username and password has been saved automatically by the debugging of the code. That's why, after running the project, it's automatically going to the login page. After login with the correct username and password it is directly going to the donation page.

Here, we can see the testing using selenium has been done successfully.