



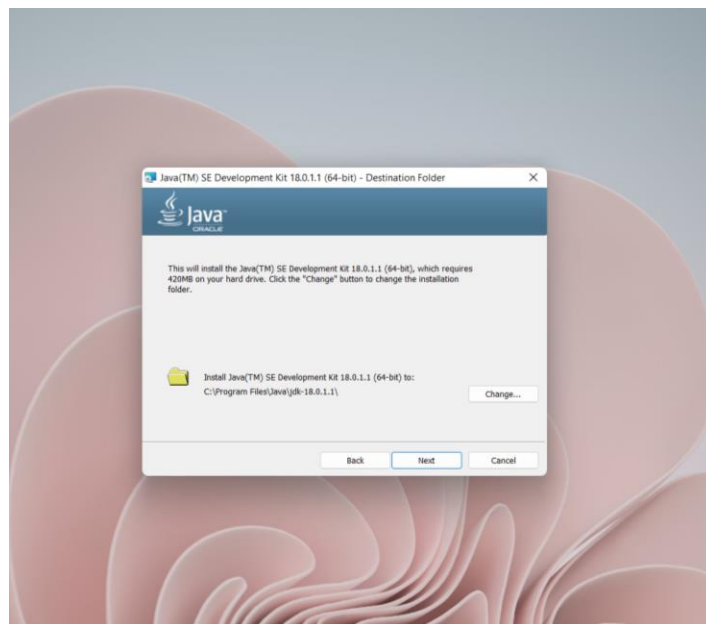
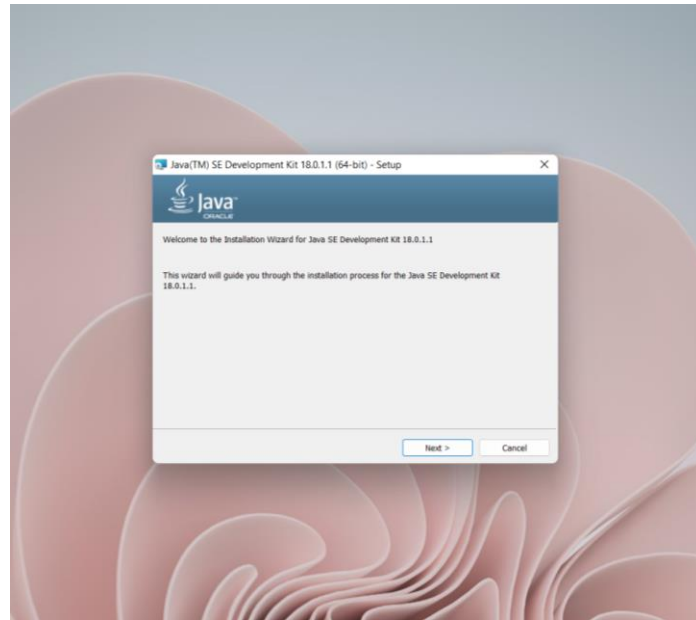
American International University-Bangladesh

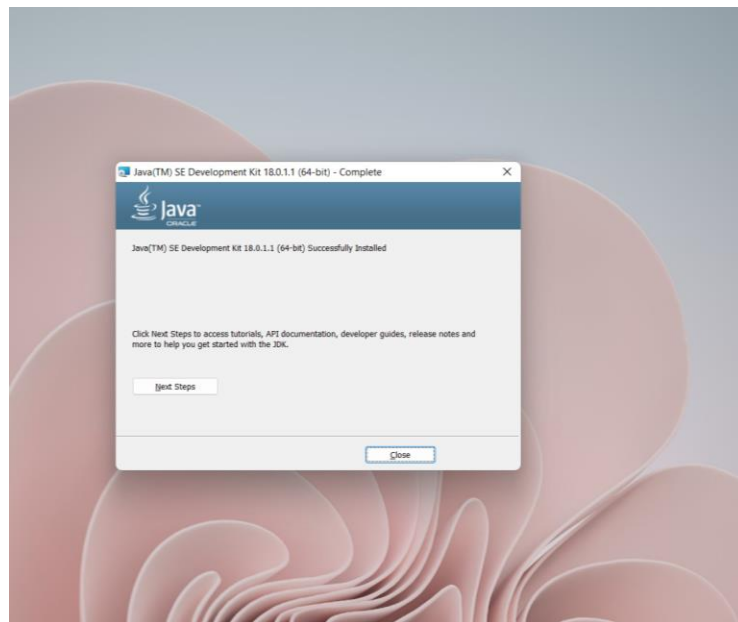
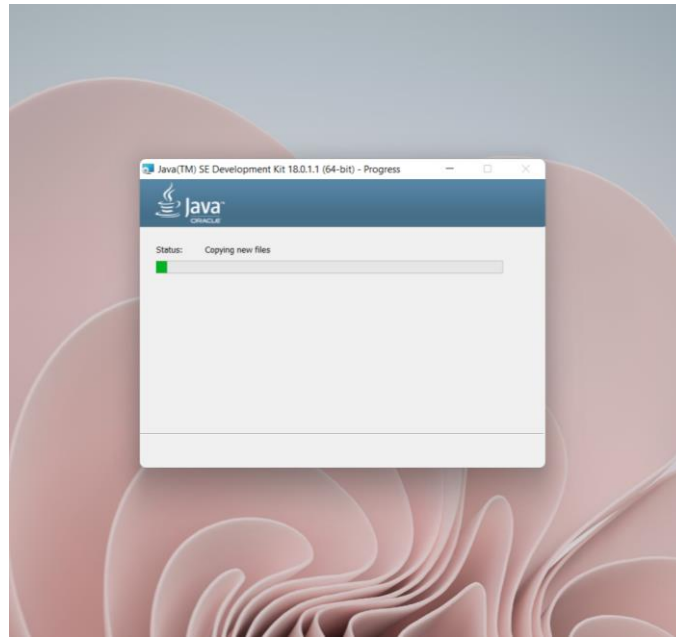
Department of Computer Science

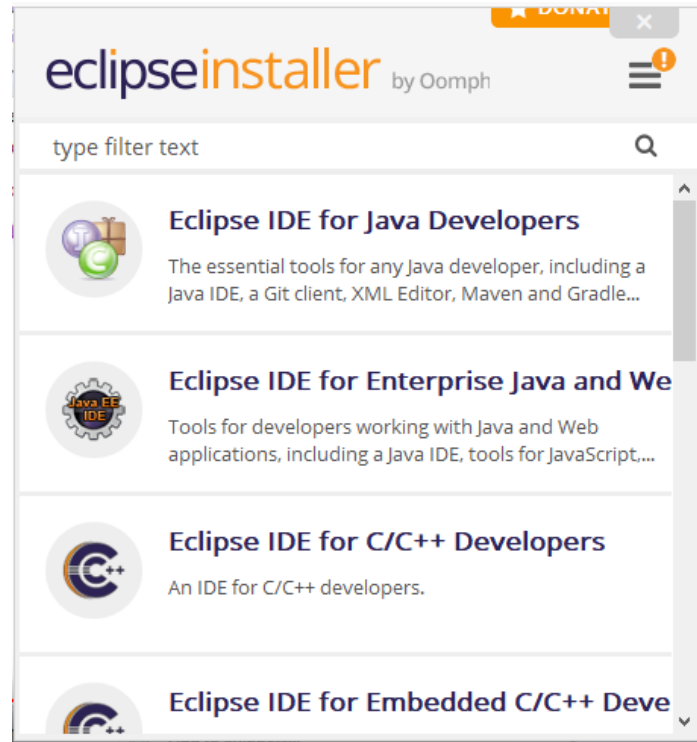
Software Quality and Testing

Section : B

Name	ID
Nowshin Sayara	18-36237-1
Mustary Rahman Prottasha	19-39985-1
Rubina Islam Reya	19-39811-1







New Java Project

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name:

☒ Use default location

Location:

JRE

☒ Use an execution environment JRE:

☐ Use a project specific JRE:

☐ Use default JRE 'jre' and workspace compiler preferences [Configure JREs...](#)

Project layout

☐ Use project folder as root for sources and class files

☒ Create separate folders for sources and class files [Configure default...](#)


Working sets

☐ Add project to working sets

Working sets:

New Java Class

Java Class

 This package name is discouraged. By convention, package names usually start with a lowercase letter

Source folder:

Package:

☐ Enclosing type:

Name:

Modifiers: ☒ public ☐ package ☐ private ☐ protected

☐ abstract ☐ final ☐ static

Superclass:

Interfaces:

Which method stubs would you like to create?

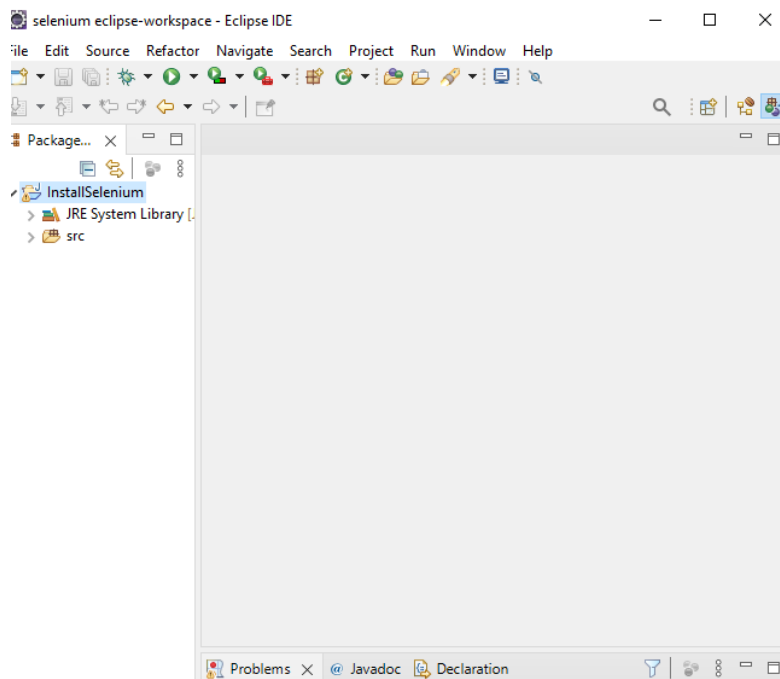
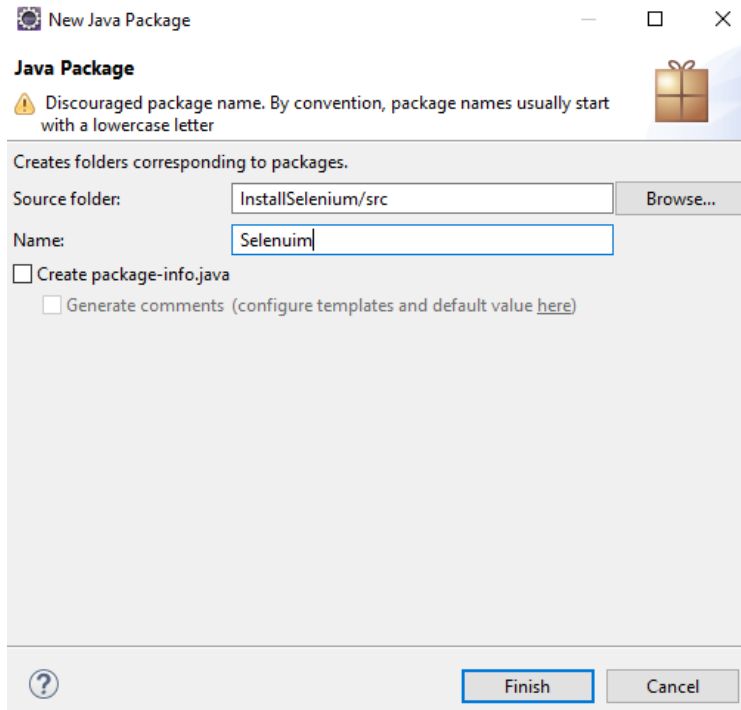
☒ public static void main(String[] args)

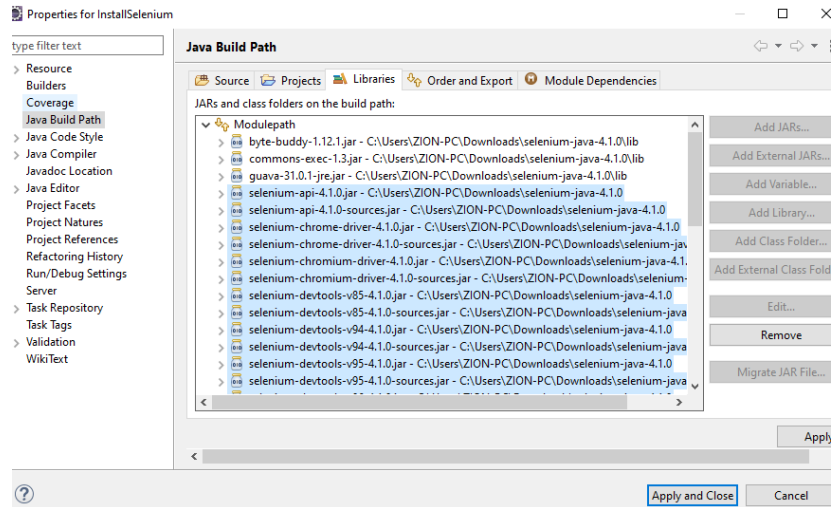
☐ Constructors from superclass

☒ Inherited abstract methods

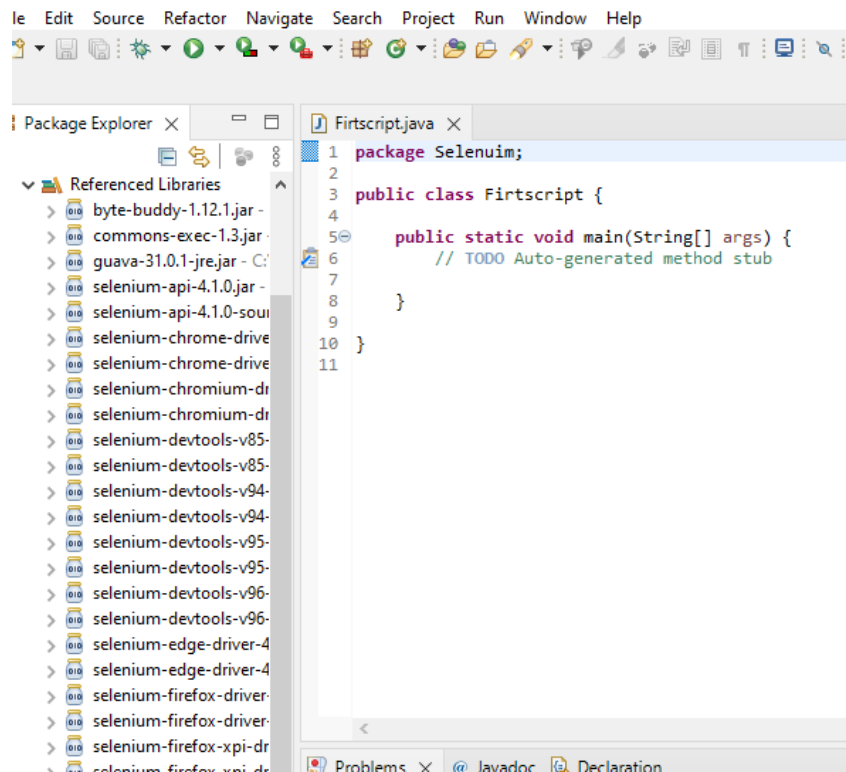
Do you want to add comments? (Configure templates and default value [here](#))

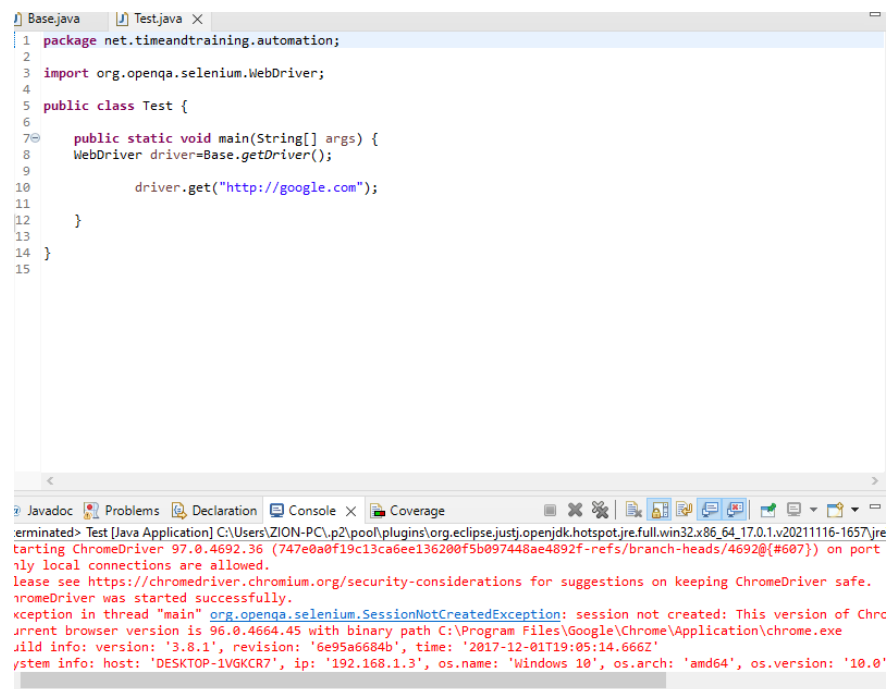
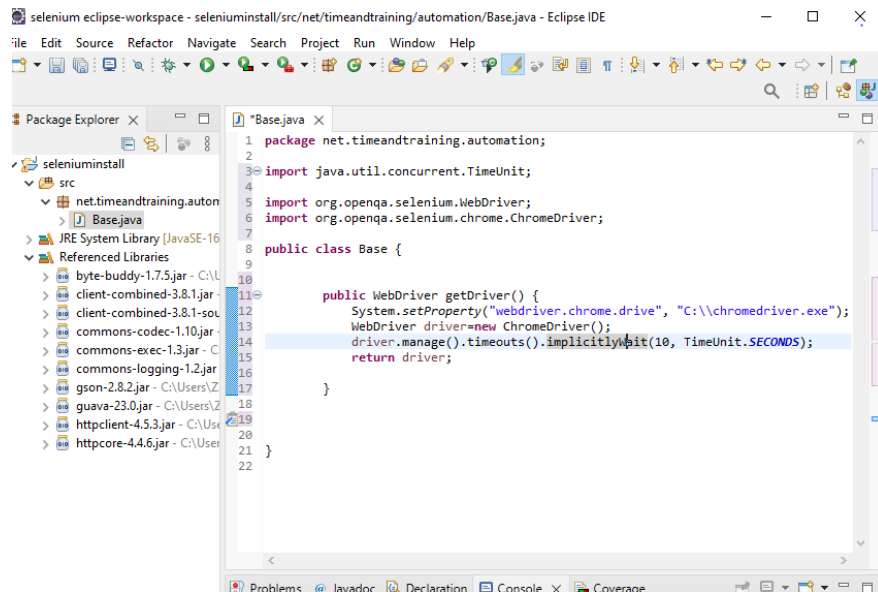
☐ Generate comments

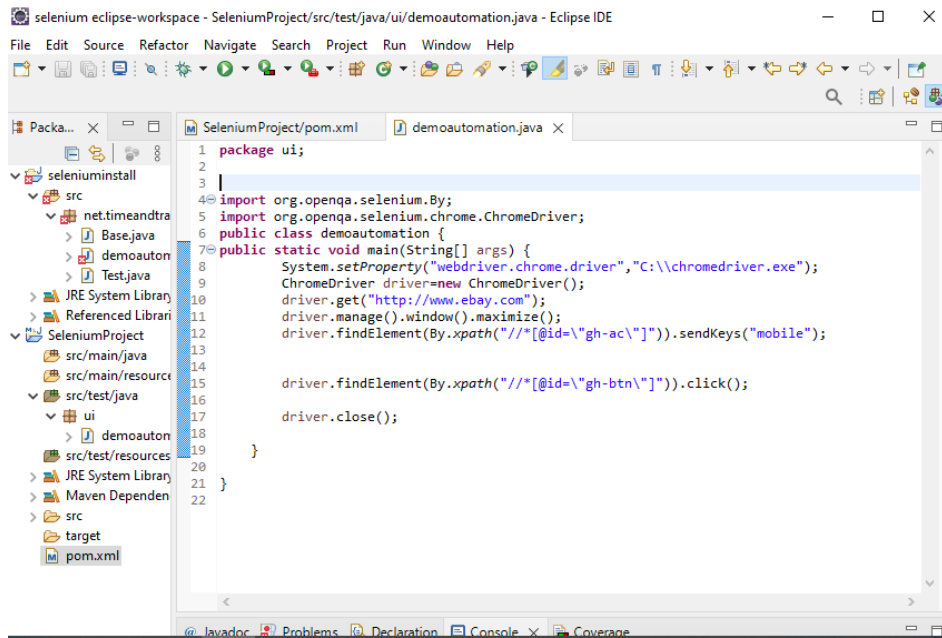
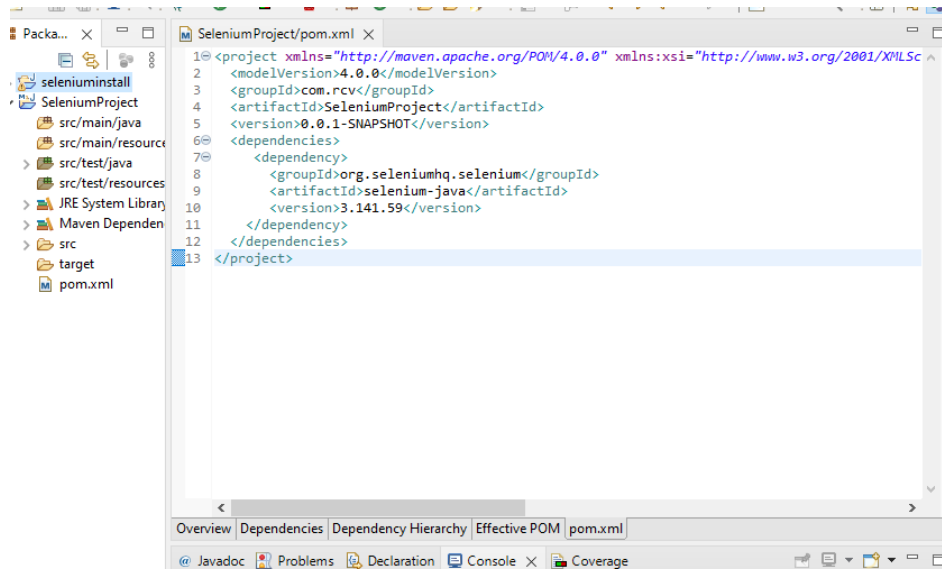




selenium eclipse-workspace - InstallSelenium/src/Selenium/Firtscript.java - Eclipse IDE







selenium eclipse-workspace - SeleniumProject/src/test/java/ui/demoautomation.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Pack... X SeleniumProject

```
1 package ui;
2
3
4 import org.openqa.selenium.By;
5 public class demoautomation {
6 public static void main(String[] args) {
7     System.setProperty("webdriver.chrome.driver", "C:\\\\chromedriver.exe");
8     WebDriverManager.chromedriver().setup();
9     ChromeDriver driver=new ChromeDriver();
10    driver.get("http://www.ebay.com");
11    driver.manage().window().maximize();
12    driver.findElement(By.xpath("//*[@id=\"gh-ac\"]")).sendKeys("mobile");
13
14    driver.findElement(By.xpath("//*[@id=\"gh-btn\"]")).click();
15
16    driver.close();
17 }
18 }
```

Logintest.java demoautomation.java SeleniumProject/pom.xml

ject/src/test/java/ui/LoginTest.java - Eclipse IDE

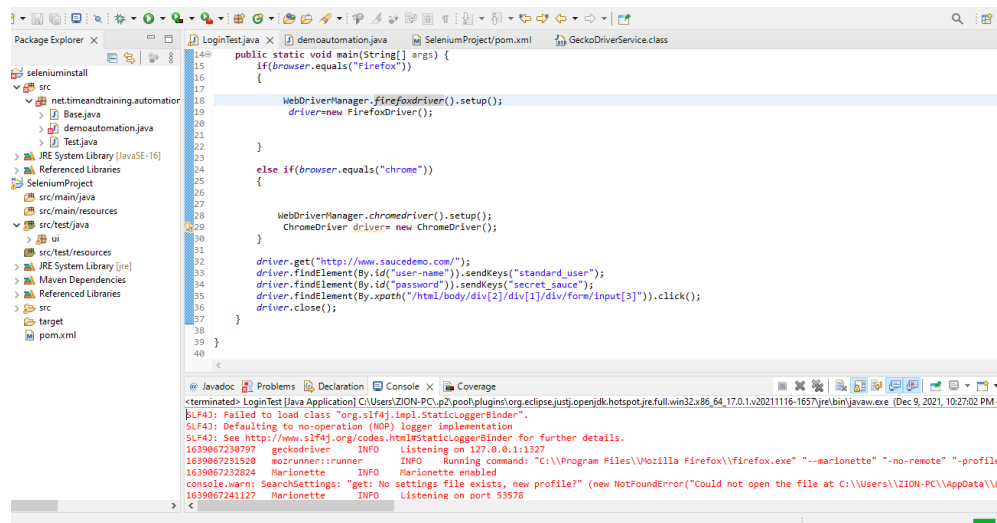
Search Project Run Window Help

Logintest.java X demoautomation.java SeleniumProject/pom.xml

```
1 package ui;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 import io.github.bonigarcia.wdm.WebDriverManager;
7
8 public class LoginTest {
9
10 public static void main(String[] args) {
11     WebDriverManager.chromedriver().setup();
12     ChromeDriver driver=new ChromeDriver();
13     driver.get("http://www.saucedemo.com/");
14     driver.findElement(By.id("user-name")).sendKeys("standard_user");
15     driver.findElement(By.id("password")).sendKeys("secret_sauce");
16     driver.findElement(By.xpath("/html/body/div[2]/div[1]/div/form/input[3]")).click();
17     driver.close();
18 }
19
20 }
21 }
```

@ Javadoc Problems Declaration Console Coverage

<terminated> LoginTest [Java Application] C:\Users\ZION-PC\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.1.v20211116-
at org.openqa.selenium.remote.service.DriverCommandExecutor.execute(DriverCommandExecutor.java:83)
at org.openqa.selenium.remote.RemoteWebDriver.execute(RemoteWebDriver.java:552)
at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:323)
at org.openqa.selenium.remote.RemoteWebDriver.findElementByXPath(RemoteWebDriver.java:428)
at org.openqa.selenium.By\$ByXPath.findElement(By.java:353)
at org.openqa.selenium.remote.RemoteWebDriver.findElement(RemoteWebDriver.java:315)
at ui.LoginTest.main(LoginTest.java:16)



Selenium testing:

Summary of Selenium testing Selenium is an open-source project that serves as a hub for a variety of tools and frameworks that facilitate browser automation. It offers a playback tool so that functional tests may be created across the majority of current web browsers without the requirement to learn a test scripting language (Selenium IDE). Additionally, it offers a test domain-specific language (Selenese) that enables the writing of tests in a variety of well-known programming languages, such as JavaScript (Node.js), C#, Groovy, Java, Perl, PHP, Python, Ruby, and Scala. Windows, Linux, and macOS all support Selenium. Under the terms of the Apache License 2.0, it is open-source software. This is a great way to test software. In our case, we configure selenium with C# language. C# is useful for automation testing because it allows the automation test engineer to develop an application with the help of Visual Studio on the .Net framework. First, we install the IDE of the C# programming language and which is Visual Studio. Then we create a console-based new project. Then we install the selenium web driver and selenium chrome web driver. Then we do an automation test of our C# project's login page with the selenium testing tool. After completing the code we run the test and it passed. Then we can see that on the login page there is a message that comes success denied and our automation testing is completed.

The most widely used freeware and open source automation tool is Selenium. Selenium has a lot of advantages when it comes to test automation. It also allows for recording and playback for testing web applications, as well as the execution of numerous scripts across multiple browsers. Selenium is a freeware and portable application. Java, Perl, Python, C#, Ruby, Groovy, JavaScript, and other languages are supported by Selenium. It has its own script, yet it is not constrained by it. Testers are free to use any language they are familiar with Selenium.