

#503(prac7)---24/08/19---

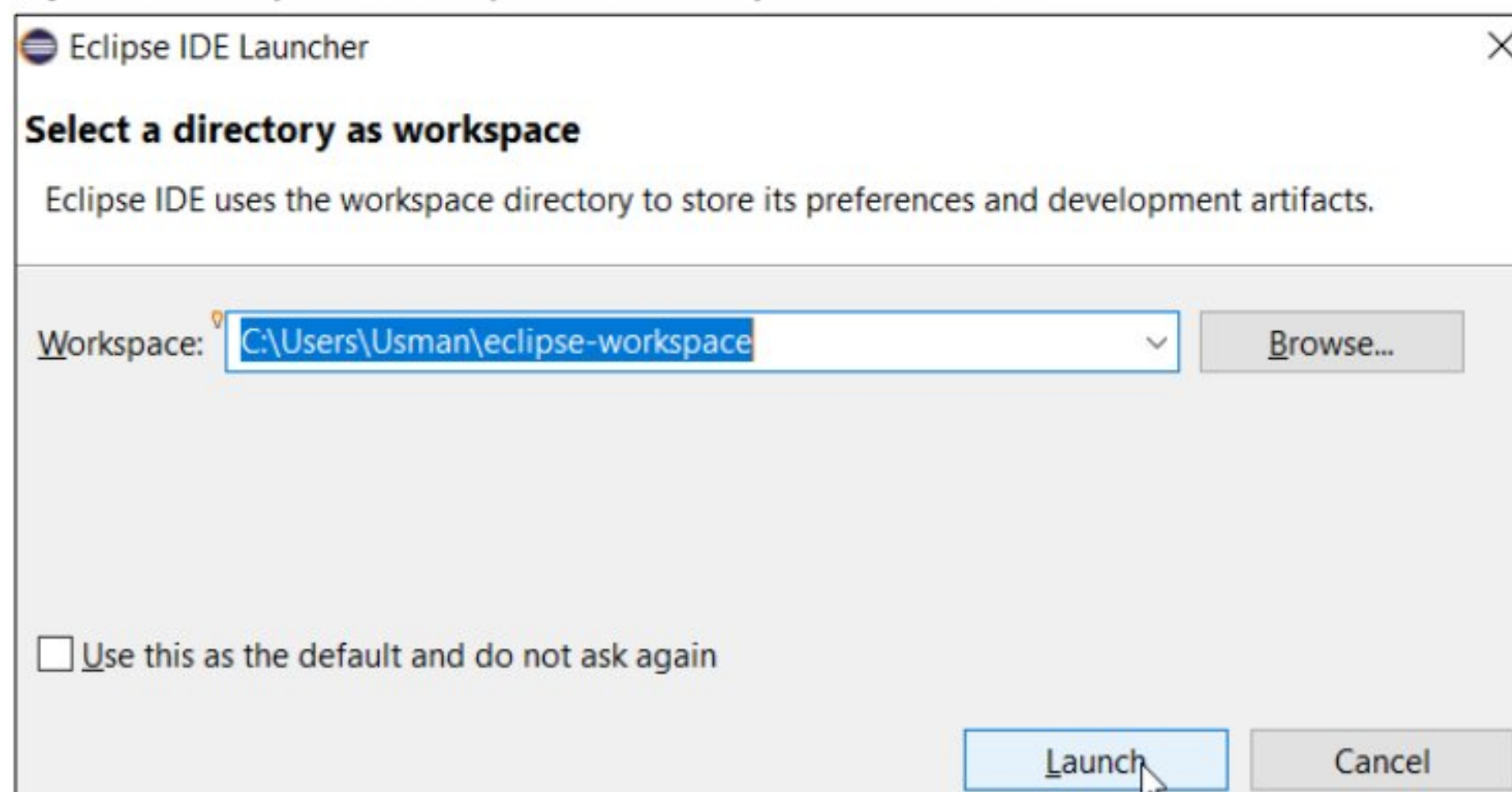
#AIM: Write and test a program for logging in facebook webpage.

PRE-REQUISITES:

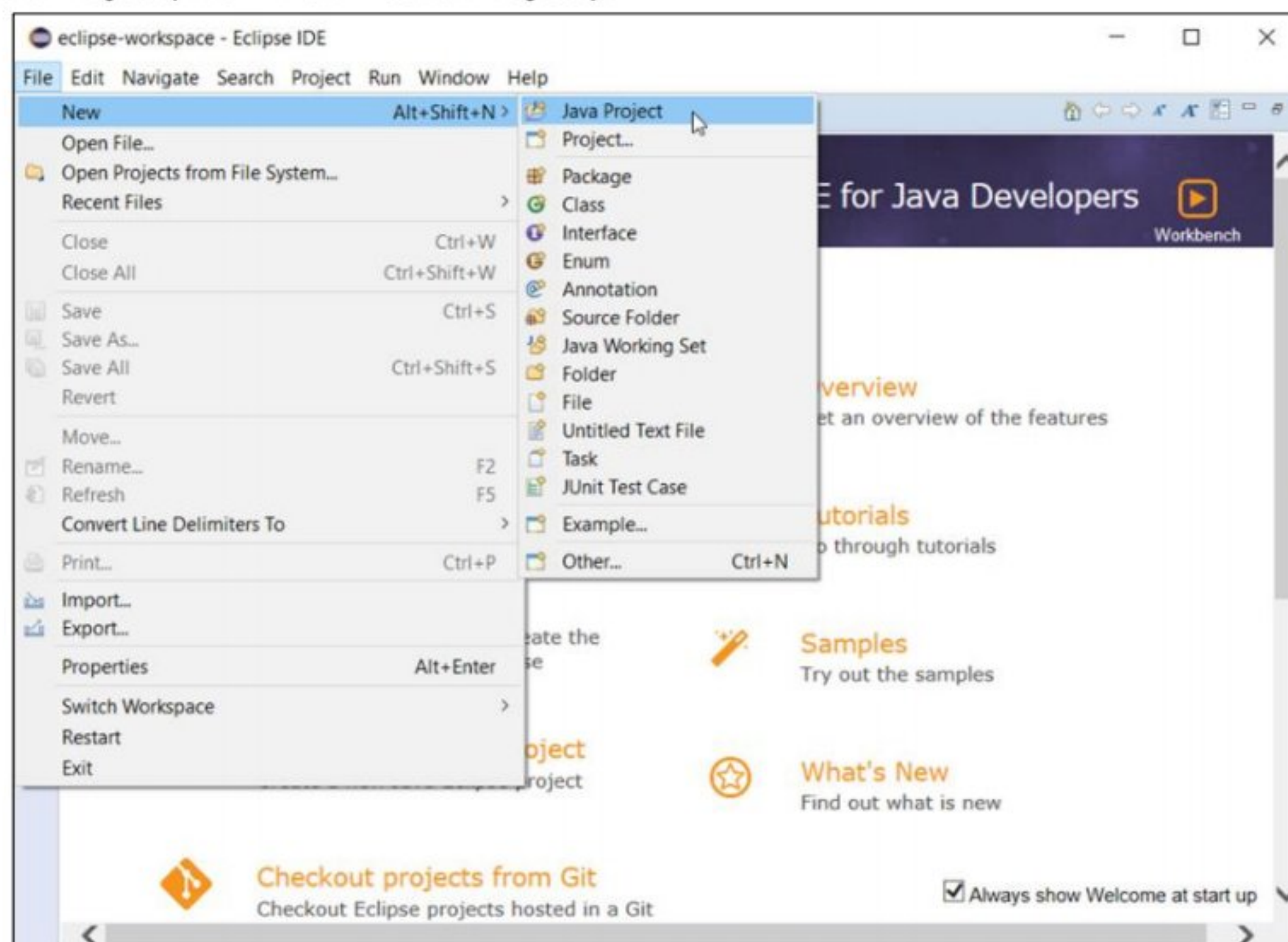
- 1) Check that you have **JDK**.
- 2) Check that you have **Eclipse IDE**.
- 3) Check that you have **Selenium Server Driver and Client Driver(JAR files)**.
- 4) Check that you have **Gecko Driver**.
- 5) Check that you have a stable Internet connection.

STEPS:

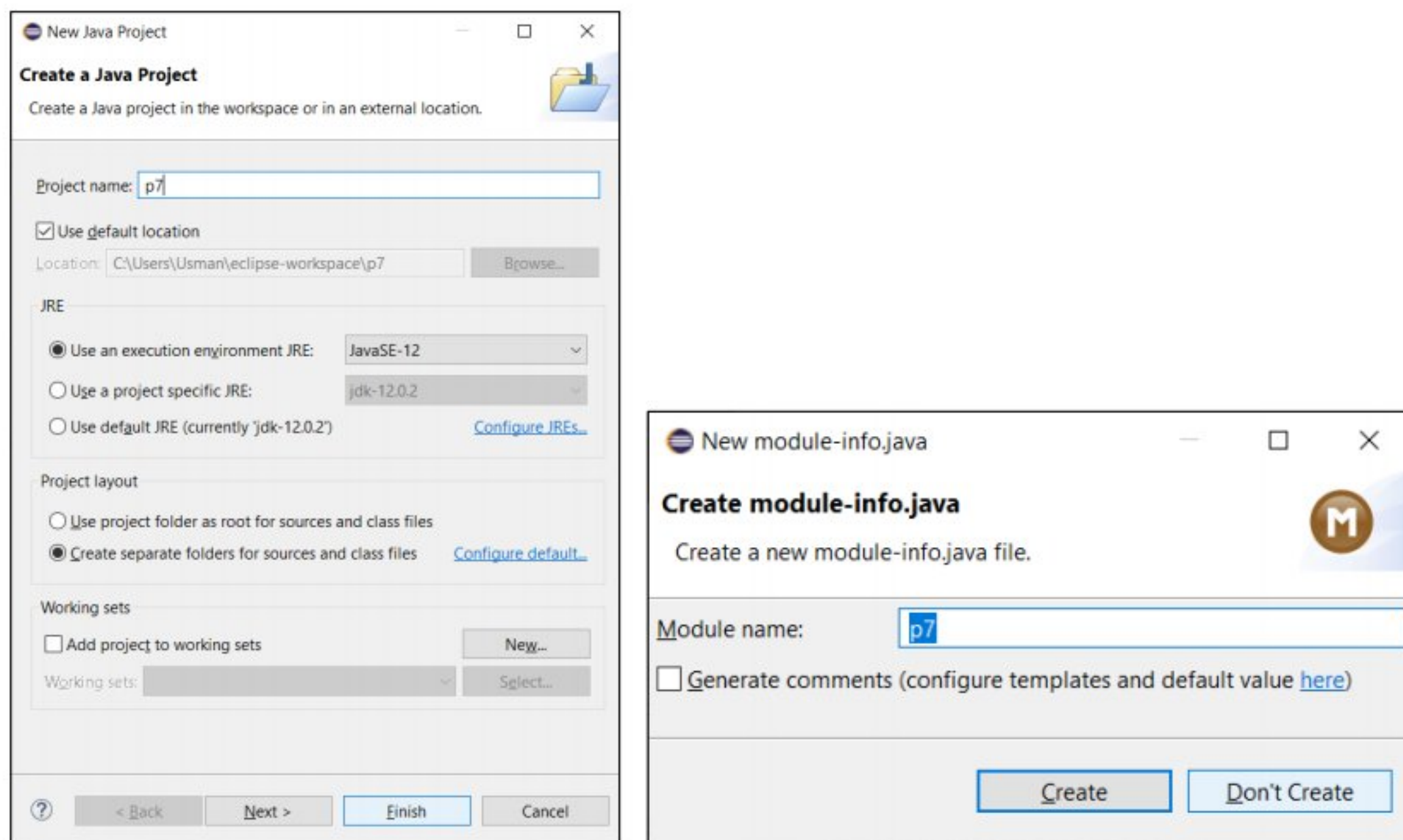
- 1) **Open Eclipse.** Select your workspace directory. Click **Launch**:



- 2) **Create a Project(File > New > Java Project):**

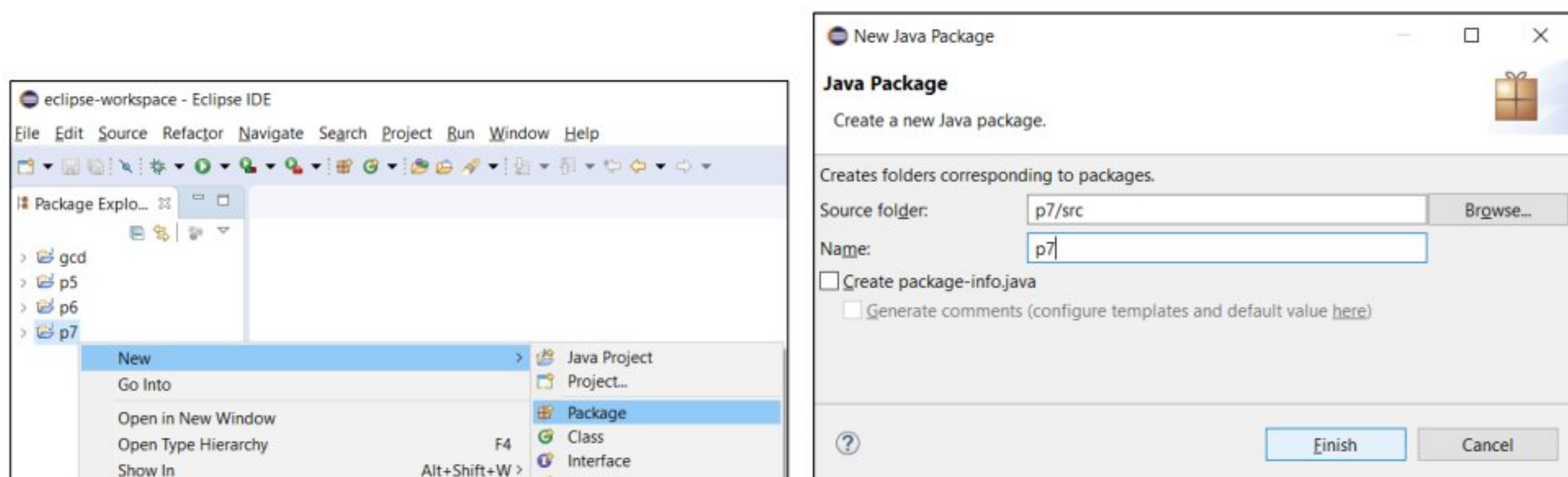


3) Name the project as “p7” > click Finish > click Don’t Create module:

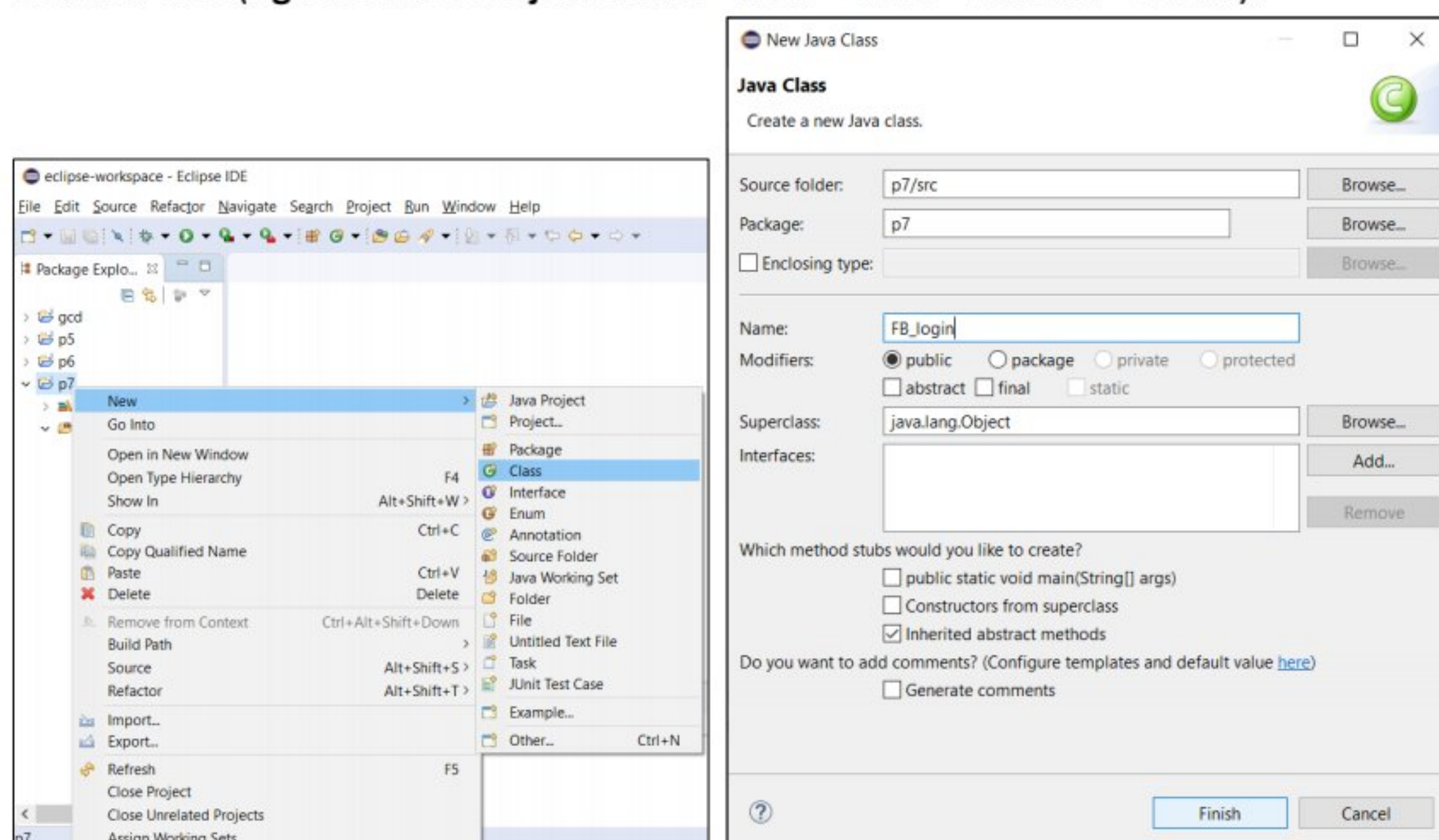


4) Close the “Welcome” tab.

5) Create a Package(right-click on Project Name > New > Package > Name it > Finish):

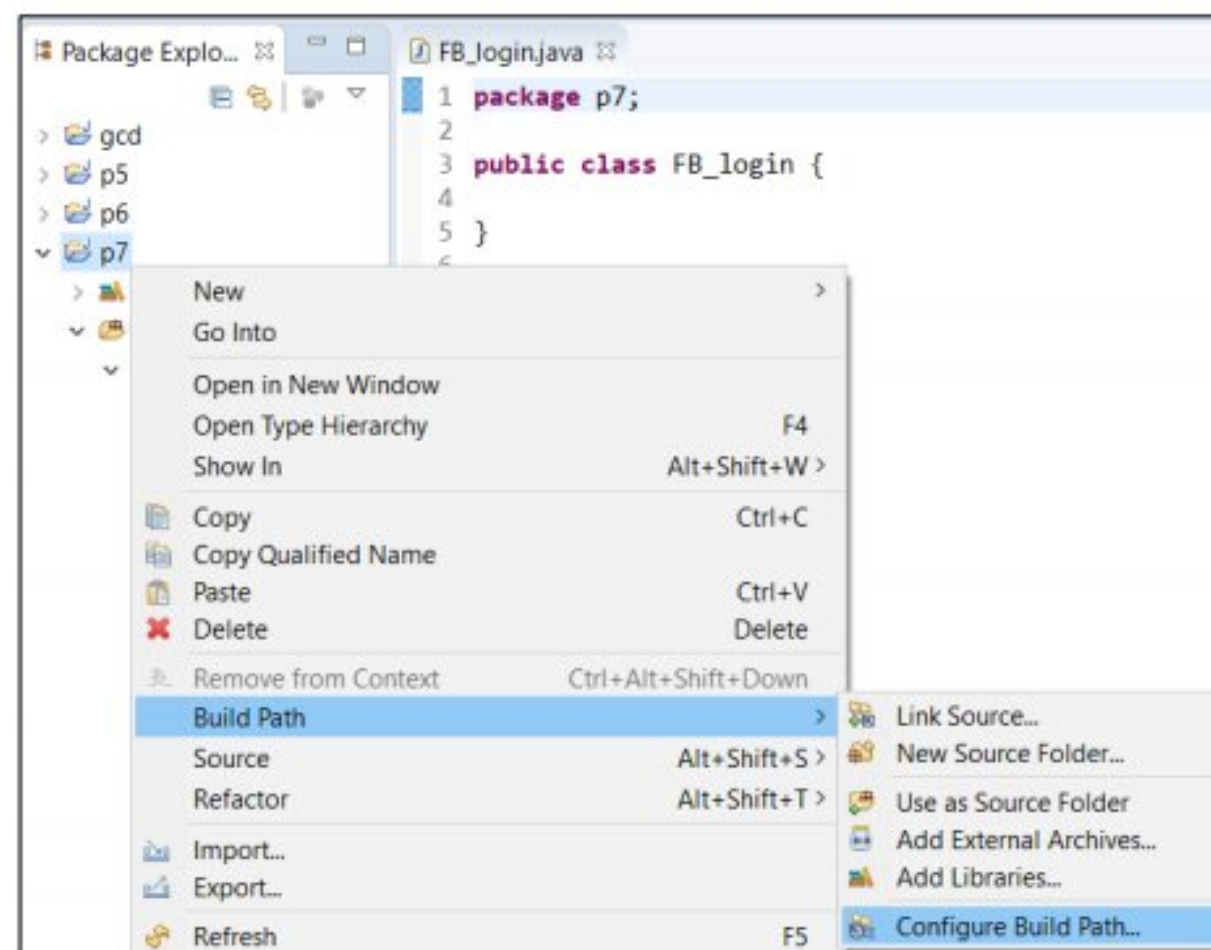


6) Create a Class(right-click on Project Name > New > Class > Name it > Finish):

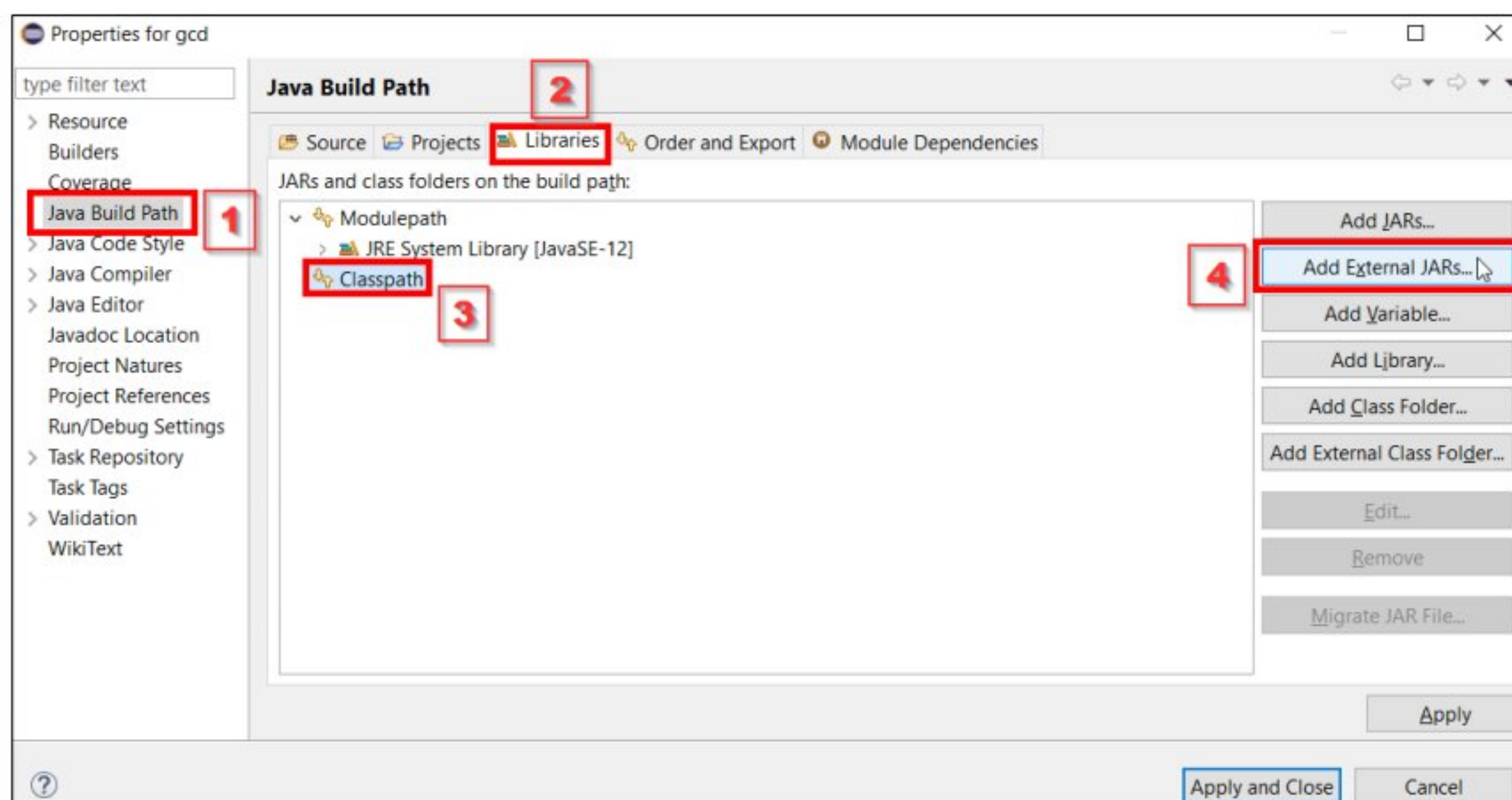


7) Adding “Selenium Server Driver and Client Driver(JAR files)” in Eclipse IDE:

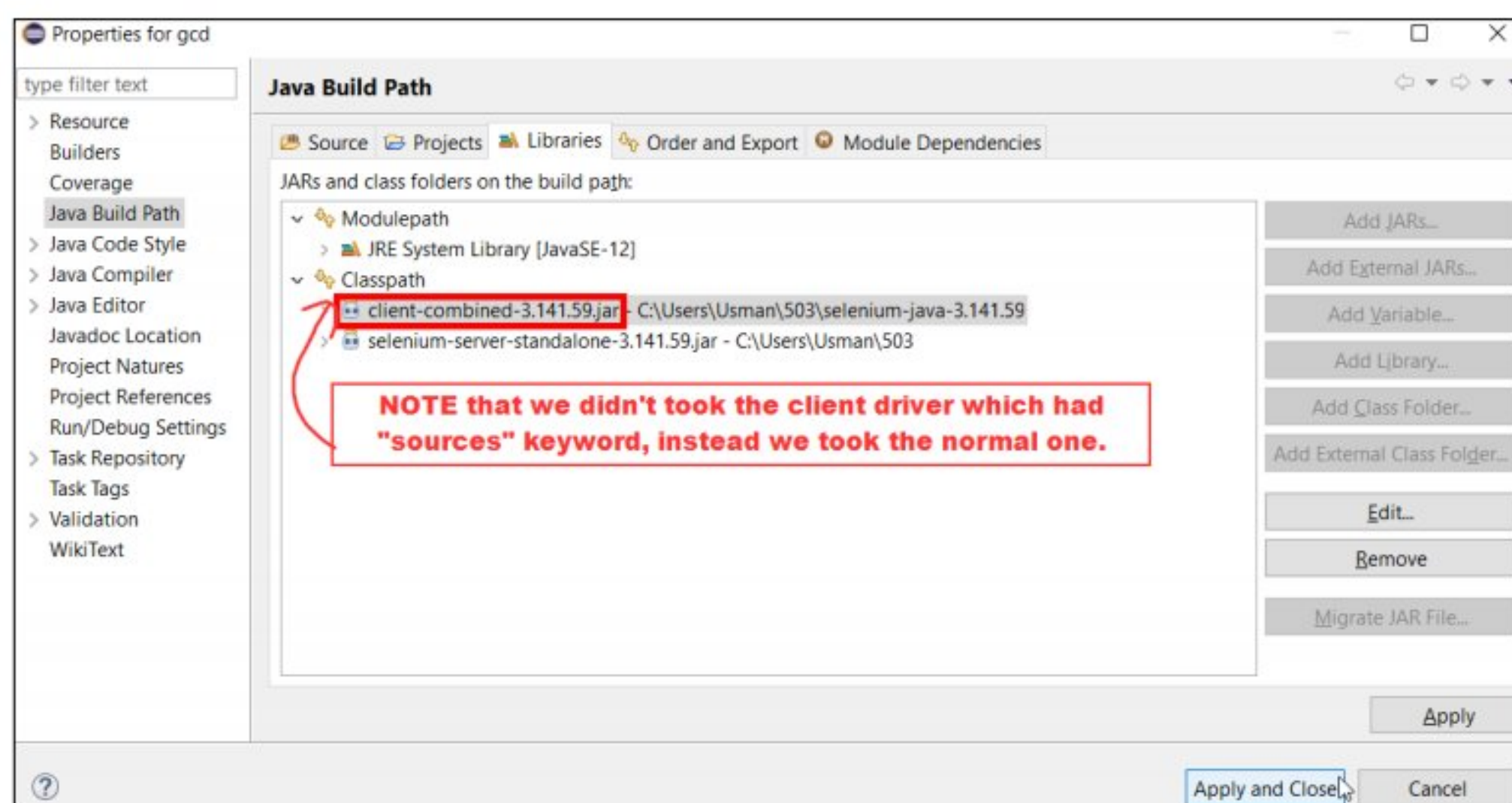
- right-click on Project Name > Build Path > Configure Build Path...



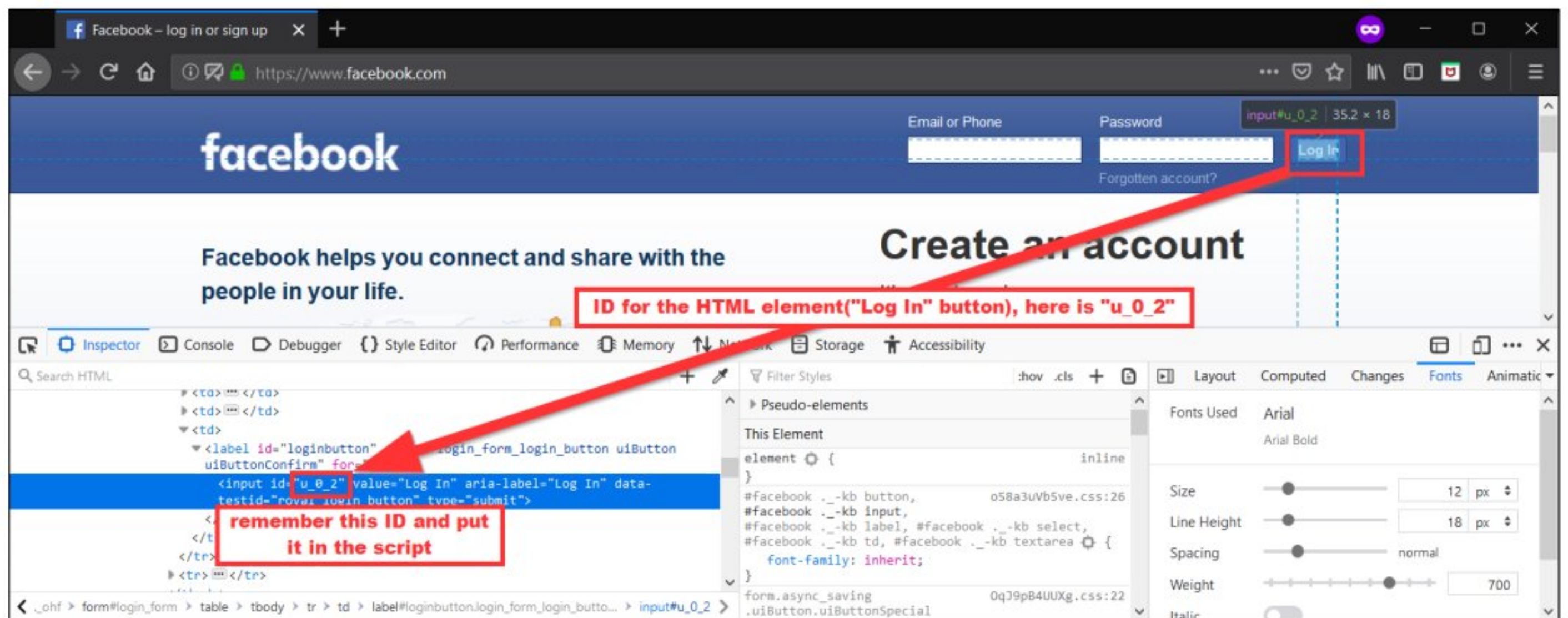
- now go under: Java Build Path > Libraries > Classpath > click Add External JARs...



- Browse and add JAR files > click Apply and Close :



- 8) Fetching ID's of the HTML attributes of the elements from the facebook webpage.
For instance we looking for the ID behind "Log In" button HTML element
(right-click over element(button/textbox) > click **Inspect Element**):
(do the same for EMAIL TEXTBOX & PASSWORD TEXTBOX)



- 9) Creating the **script in JAVA**:
(NOTE that this **script** will be run by Eclipse IDE)
(In simple words, it's like we are
-ordering Eclipse to run a script or to do a job
-of opening the browser, visiting the URL
-and putting credentials in textboxes and clicking button with the help of Selenium Drivers
-and to show the result.
-Hence automating the work in browser for logging in)
- Now we'll put the path of "geckodriver" in a String **driverPath**
 - And in here, we'll **put the ID's in the .id()** method respectively.

---(FB_login.java)---

```
package p7;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.*;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.firefox.FirefoxProfile;
import org.openqa.selenium.firefox.internal.ProfilesIni;

public class FB_login {
    static String driverPath = "C:\\Users\\Usman\\503\\geckodriver.exe";

    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);
        //DesiredCapabilities capabilities = DesiredCapabilities.firefox();
        //capabilities.setCapability("marionette",true);
        ProfilesIni allProfiles = new ProfilesIni();
        FirefoxProfile fp = new FirefoxProfile();
```



```

        fp.setPreference(FirefoxProfile.PORT_PREFERENCE,"7055");
        FirefoxOptions options = new FirefoxOptions();
        options.setProfile(fp);

        //objects and variables instantiation
        WebDriver driver = new FirefoxDriver(options);
        String appUrl = "https://www.facebook.com/";

        //launch the firefox browser and open the application url
        driver.get(appUrl);

        //maximize the browser window
        driver.manage().window().maximize();

        //declare and initialize the variable to store the expected title of the
webpage.
        String expectedTitle = "Facebook - log in or sign up";

        //fetch the title of the web page and save it into a string variable
        String actualTitle = driver.getTitle();

        //compare the expected title of the page with the actual title of the page
and print the result
        if (expectedTitle.equals(actualTitle)) {
            System.out.println("Verification Successful - The correct title is
displayed on the web page.");
        }
        else {
            System.out.println("Verification Failed - An incorrect title is
displayed on the web page.");
        }

        //enter a valid username in the email textbox
        WebElement username = driver.findElement(By.id("email"));
        username.clear();
        username.sendKeys("your email id");

        //enter a valid password in the password textbox
        WebElement password = driver.findElement(By.id("pass"));
        password.clear();
        password.sendKeys("your password");

        password.sendKeys(Keys.ENTER);

        //click on the Sign in button
        WebElement LogInButton = driver.findElement(By.id("u_0_2"));
        LogInButton.click();

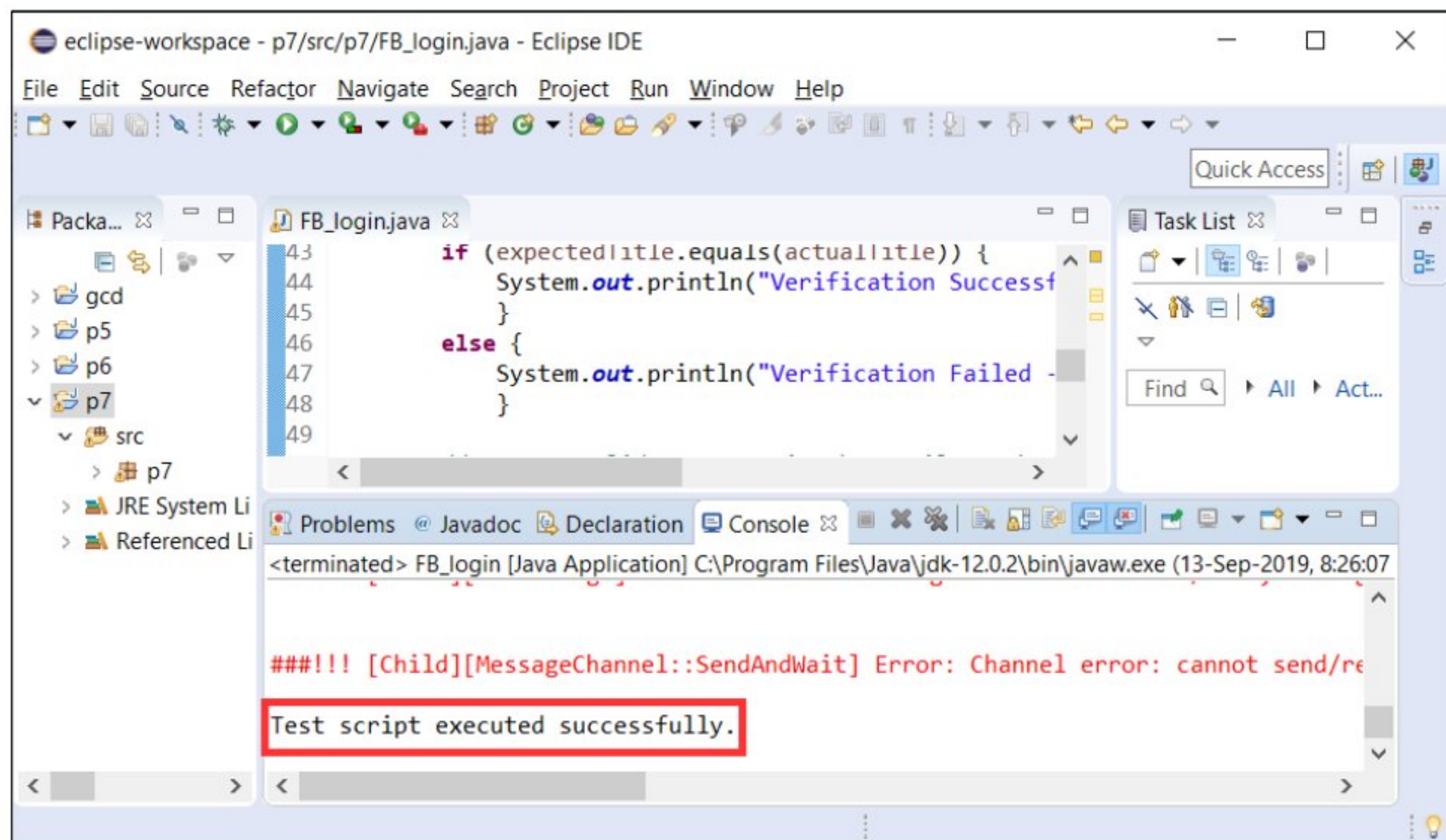
        //close the web browser
        driver.close();
        System.out.println("Test script executed successfully.");

        //terminate the program
        System.exit(0);
    }
}

```


10) Run the file from Eclipse IDE:

- **OUTPUT:**



The screenshot shows the Eclipse IDE interface. The main editor displays the code for `FB_login.java`. The code is as follows:

```
43     if (expectedTitle.equals(actualTitle)) {  
44         System.out.println("Verification Successf  
45     }  
46     else {  
47         System.out.println("Verification Failed -  
48     }  
49
```

The console output at the bottom shows the following messages:

```
<terminated> FB_login [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (13-Sep-2019, 8:26:07  
  
###!!! [Child][MessageChannel::SendAndWait] Error: Channel error: cannot send/re  
Test script executed successfully.
```

The message "Test script executed successfully." is highlighted with a red box.

11) Finish!