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

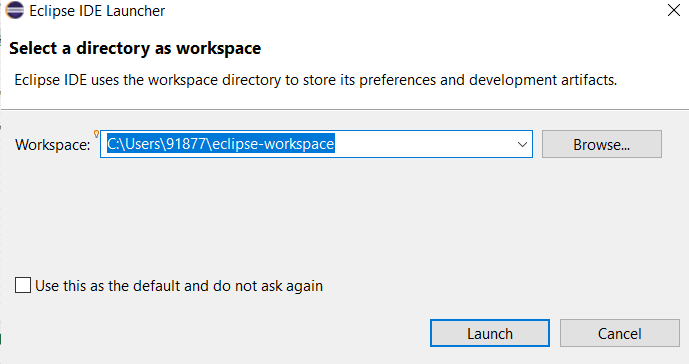
**#AIM:** **Write and test a program for logging in facebook webpage.**

**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 New Project (**File > New > Java Project)**



1. **Name the project** as “p7” **>** click **Finish** **>** click **Don’t Create** module:



1. **Close the “Welcome” tab**.
2. **Create** a Package(**right-click on Project Name > New > Package** **>** **Name** it **> Finish**):



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



1. 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 :**



1. 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)



(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:\\Program Files\\e-selenium\\geckodriver-v0.29.1-win64\\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");**

**//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.name("login"));**

**LogInButton.click();**

**//close the web browser**

**driver.close();**

**System.out.println("Test script executed successfully.");**

**//terminate the program**

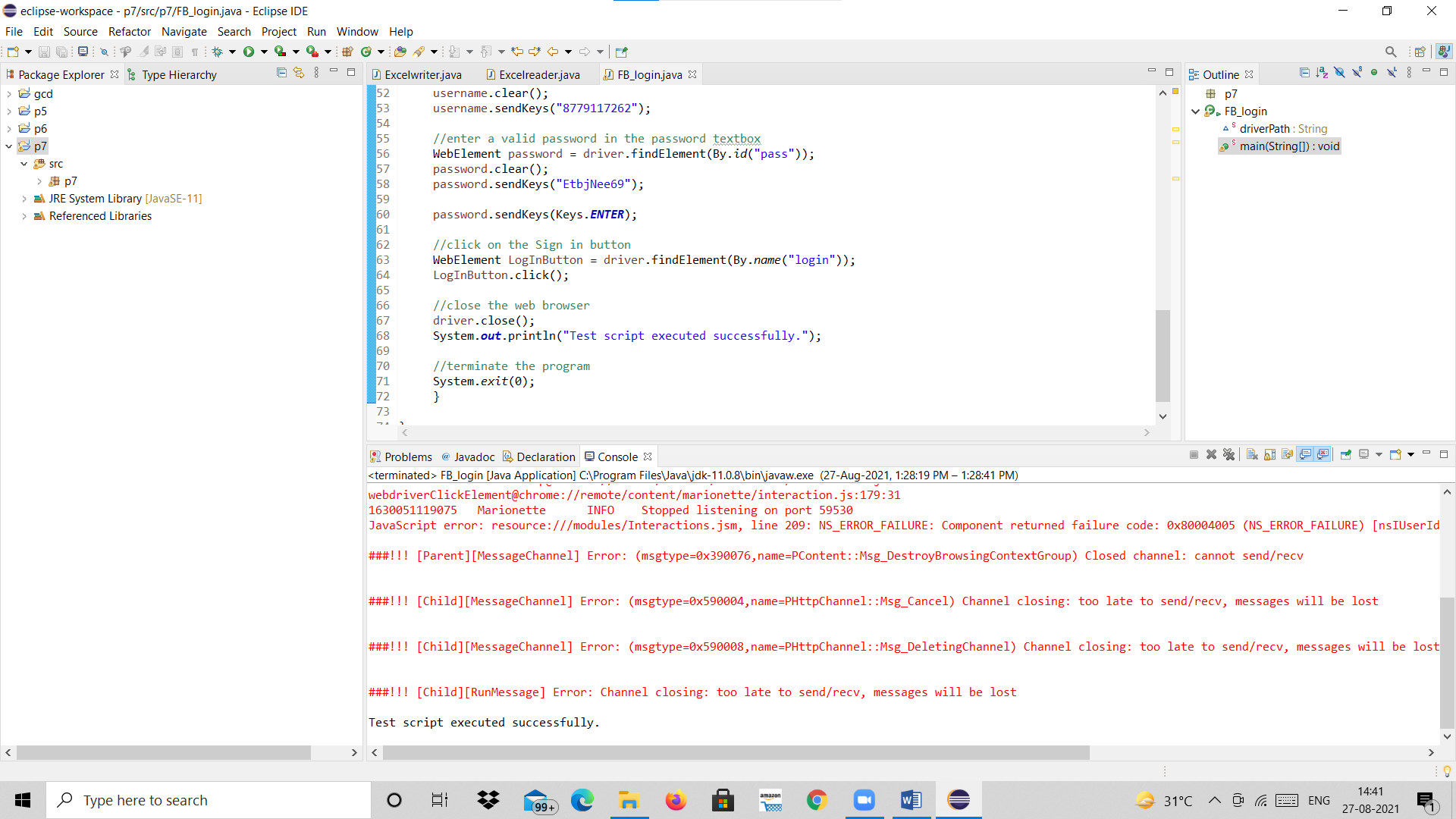
**System.exit(0);**

**}**

**}**

**10) Run the file from Eclipse IDE:**

**Output:**



**11) Finish:**