

Assignment 1

This assignment was coded in the following manner:

```
1 package ActualLab7;
2
3 import org.testng.annotations.Test;
4
5 public class Q1 {
6     @Test()
7     public void c_method(){
8         System.out.println("I'm in method C"); }
9     @Test ()
10    public void b_method(){
11        System.out.println("I'm in method B"); }
12    @Test (priority=6)
13    public void a_method(){
14        System.out.println("I'm in method A"); }
15    @Test (priority=0)
16    public void e_method (){
17        System.out.println("I'm in method E"); }
18    @Test (priority=6)
19    public void d_method(){
20        System.out.println("I'm in method D"); }
21 }
22
23
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface with two panels. The left panel, titled 'Console', shows the output of the test execution. The right panel, titled 'Results of running class Q1', shows the TestNG test results.

Console Output:

```
<terminated> Q1 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre
[RemoteTestNG] detected TestNG version 7.4.0
I'm in method B
I'm in method C
I'm in method E
I'm in method A
I'm in method D
PASSED: c_method
PASSED: d_method
PASSED: e_method
PASSED: b_method
PASSED: a_method

=====
Default test
Tests run: 5, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 5, Passes: 5, Failures: 0, Skips: 0
=====
```

TestNG Results:

- Passed: 5, Failed: 0, Skipped: 0
- Tests: 1/1, Methods: 5 (286 ms)
- Default suite (5/0/0/0) (0.015 s)
 - Default test (0.015 s)
 - ActualLab7.Q1
 - b_method (0.011 s)
 - c_method (0.001 s)
 - e_method (0.001 s)
 - a_method (0.001 s)
 - d_method (0.001 s)

Assignment 2

This assignment was coded in the following manner:

```
1 package ActualLab7;
2
3
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6 import org.testng.Assert;
7 import org.testng.annotations.Test;
8
9 public class Q2 {
10
11     public String baseUrl = "http://demo.guru99.com/test/newtours/";
12     String driverPath = "C:\\chromedriver.exe";
13
14     public WebDriver driver ;
15     @Test
16     public void Q2() {
17         System.out.println("launching Chrome browser");
18         System.setProperty("webdriver.chrome.driver", driverPath);
19         driver = new ChromeDriver();
20         driver.get(baseUrl);
21         String expectedTitle = "Welcome: Mercury Tours";
22         String actualTitle = driver.getTitle();
23         Assert.assertEquals(actualTitle, expectedTitle);
24         System.out.println(actualTitle);
25         driver.close ();
26     }
27 }
28 }
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface with two panels. The left panel, titled 'Console', shows the execution output of the test. It begins with a warning about a terminated Q2 [TestNG] process, followed by the detection of TestNG version 7.4.0. The output then shows the successful launch of the Chrome browser and the ChromeDriver. The test itself prints 'Welcome: Mercury Tours' and 'PASSED: Q2'. The right panel, titled 'Results of running class Q2', shows a summary of the test results. It indicates that 1 test passed, 0 failed, and 0 were skipped. The test suite 'Default suite' contains 1 test, 'Q2', which passed in 4.659 seconds. The bottom of the right panel shows a 'Failure Exception' section, which is currently empty.

```
<terminated> Q2 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre
[RemoteTestNG] detected TestNG version 7.4.0
launching Chrome browser
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-consideration
ChromeDriver was started successfully.
Mar. 18, 2022 2:56:27 P.M. org.openqa.selenium.remote.ProtocolHand
INFO: Detected dialect: W3C
Welcome: Mercury Tours
PASSED: Q2

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

Results of running class Q2

Search:

Passed: 1 Failed: 0 Skipped: 0

Tests: 1/1 Methods: 1 (4920 ms)

All Tests Failed Tests Summary

Default suite (1/0/0/0) (4.659 s)

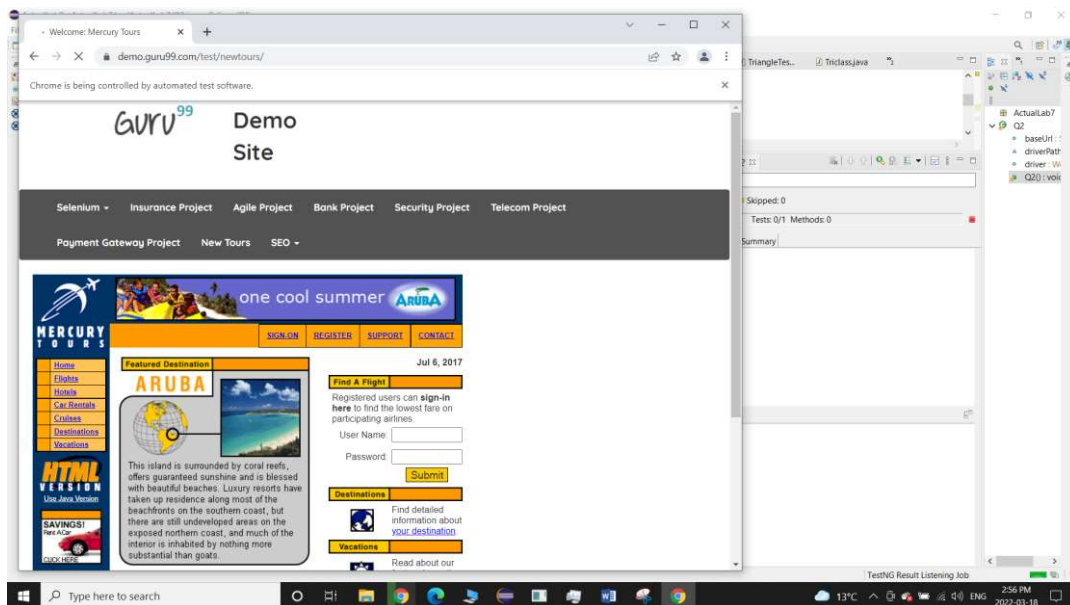
Default test (4.659 s)

ActualLab7.Q2

Q2 (4.659 s)

Failure Exception

The following results were observed on the web driver:



Assignment 3

This assignment was coded in the following manner:

```
1 package ActualLab7;
2
3 import org.testng.annotations.Test;
4
5
6 import org.openqa.selenium.*;
7 import org.openqa.selenium.WebDriver;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.testng.Assert;
10 import org.testng.annotations.Test;
11
12 public class Q3 {
13
14     WebDriver driver;
15     String driverPath = "C:\\chromedriver.exe";
16     @Test (priority=1)
17     public void openBrowser() {
18         System.setProperty("webdriver.chrome.driver", driverPath);
19         driver = new ChromeDriver();
20     }
21
22
23     @Test (priority=2)
24     public void launchFacebook() {
25         driver.get("http://www.facebook.com");
26     }
27
28
29     @Test (priority=3)
30     public void checkTagName() {
31
32         String tagName = driver.findElement(By.id("email")).getTagName();
33         System.out.println(tagName);
34         driver.close();
35     }
36 }
37 }
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface. On the left, the 'Console' window shows the following output:

```
<terminated> Q3 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.wi
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 2:57:27 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
input
PASSED: checkTagName
PASSED: launchFacebook
PASSED: openBrowser

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

On the right, the 'Results of running class Q3' window shows a summary of the test results:

- Passed: 3, Failed: 0, Skipped: 0
- Tests: 1/1, Methods: 3 (7510 ms)
- Summary:
 - Default suite (3/0/0/0) (7.176 s)
 - Default test (7.176 s)
 - ActualLab7.Q3
 - openBrowser (2.008 s)
 - launchFacebook (0.947 s)
 - checkTagName (4.221 s)

The 'Failure Exception' window is empty, indicating no failures.

The following results were observed on the web driver:

The screenshot shows a web browser window displaying the Facebook login page. The page includes the Facebook logo, the text 'Connect with friends and the world around you on Facebook.', and a login form with fields for 'Email or phone number' and 'Password', a 'Log In' button, a 'Forgot password?' link, and a 'Create new account' button. Below the login form, there is a link to 'Create a Page for a celebrity, brand or business.'.

Overlaid on the browser window is the Eclipse IDE interface, showing the 'Console' window with the same TestNG output as in the previous screenshot. The 'Results of running class Q3' window is also visible, showing the test results for the 'ActualLab7.Q3' class.

Assignment 4

This assignment was coded in the following manner:

```
1 package ActualLab7;
2
3 import org.testng.annotations.Test;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.chrome.ChromeDriver;
8 import org.testng.Assert;
9 import org.testng.annotations.Test;
10
11 public class Q4 {
12     WebDriver driver;
13     String driverPath = "C:\\chromedriver.exe";
14     @Test (priority=1)
15     public void openBrowser() {
16         System.setProperty("webdriver.chrome.driver", driverPath);
17         driver = new ChromeDriver();
18     }
19
20     @Test (priority=2)
21     public void launchGuru() {
22         driver.get("https://lambdatest.github.io/sample-todo-app/");
23     }
24
25     @Test (priority=3)
26     public void checkAndAddElements() {
27
28         driver.findElement(By.name("li2")).click();
29         driver.findElement(By.name("li4")).click();
30         driver.findElement(By.id("sampletodotext")).clear();
31         driver.findElement(By.id("sampletodotext")).sendKeys("Nayeem AHmed");
32         driver.findElement(By.id("addbutton")).click();
33     }
34 }
35 }
36
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface with two panels. The left panel, titled 'Console', shows the execution log for the test class Q4. It includes messages for TestNG version detection, ChromeDriver startup, and the successful execution of three test methods: launchGuru, openBrowser, and checkAndAddElements. The right panel, titled 'Results of running class Q4', shows a summary of the test results. It indicates that all tests passed, with a total of 3 tests run, 0 failures, and 0 skips. The test suite is 'Default suite (3/0/0/0) (2.614 s)', and the test class is 'ActualLab7.Q4'. The individual test methods and their durations are listed: openBrowser (1.852 s), launchGuru (0.423 s), and checkAndAddElements (0.339 s). The bottom of the right panel shows a 'Failure Exception' section, which is currently empty.

Console Output:

```
<terminated> Q4 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 2:59:56 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
PASSED: launchGuru
PASSED: openBrowser
PASSED: checkAndAddElements

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

Results of running class Q4:

Search:

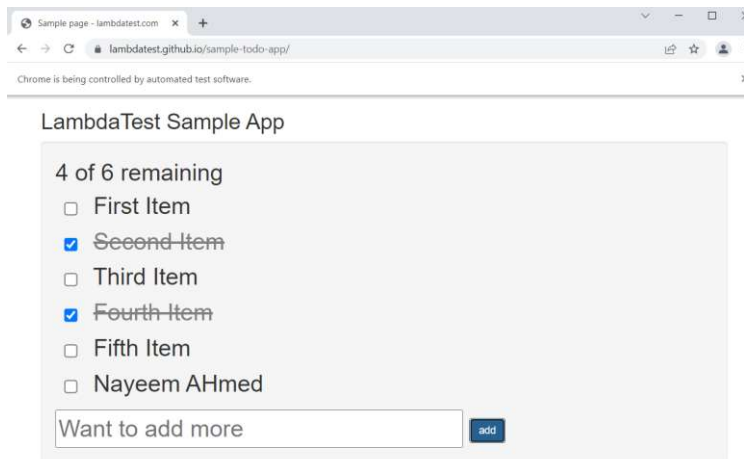
Passed: 3 Failed: 0 Skipped: 0

Tests: 1/1 Methods: 3 (2867 ms)

All Tests Failed Tests Summary

- Default suite (3/0/0/0) (2.614 s)
 - Default test (2.614 s)
 - ActualLab7.Q4
 - openBrowser (1.852 s)
 - launchGuru (0.423 s)
 - checkAndAddElements (0.339 s)

Failure Exception



Assignment 5

This assignment was coded in the following manner:

```
package ActualLab7;

import org.testng.annotations.Test;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;
public class Q5 {

    WebDriver driver;
    String driverPath = "C:\\chromedriver.exe";

    @Test (priority=1)
    public void openBrowser() {
        System.setProperty("webdriver.chrome.driver", driverPath);
        driver = new ChromeDriver();
        driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);
    }

    @Test (priority=2)
    public void launchGoogle() {
        driver.get("http://www.google.com");
    }

    @Test (priority=3)
    public void performSearchAndClick1stLink() {
        driver.findElement(By.xpath("//*[title='Search']")).sendKeys("Facebook");
    }

    @Test (priority=4)
    public void FaceBookPageTitleVerification() throws Exception {
        driver.findElement(By.name("btnK")).click();
        Thread.sleep(3500);
        Assert.assertEquals(driver.getTitle().contains("Facebook - Google Search"), true);
    }

    @Test (priority=5)
    public void driverexit() {
        driver.close();
    }
}
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface. On the left, the 'Console' window shows the following output:

```
<terminated> Q5 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.wi
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 3:01:20 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
PASSED: openBrowser
PASSED: FaceBookPageTitleVerification
PASSED: performSeachAndClick1stLink
PASSED: driverexit
PASSED: launchGoogle

=====
Default test
Tests run: 5, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 5, Passes: 5, Failures: 0, Skips: 0
=====
```

On the right, the 'Results of running class Q5' window shows a summary of the test results:

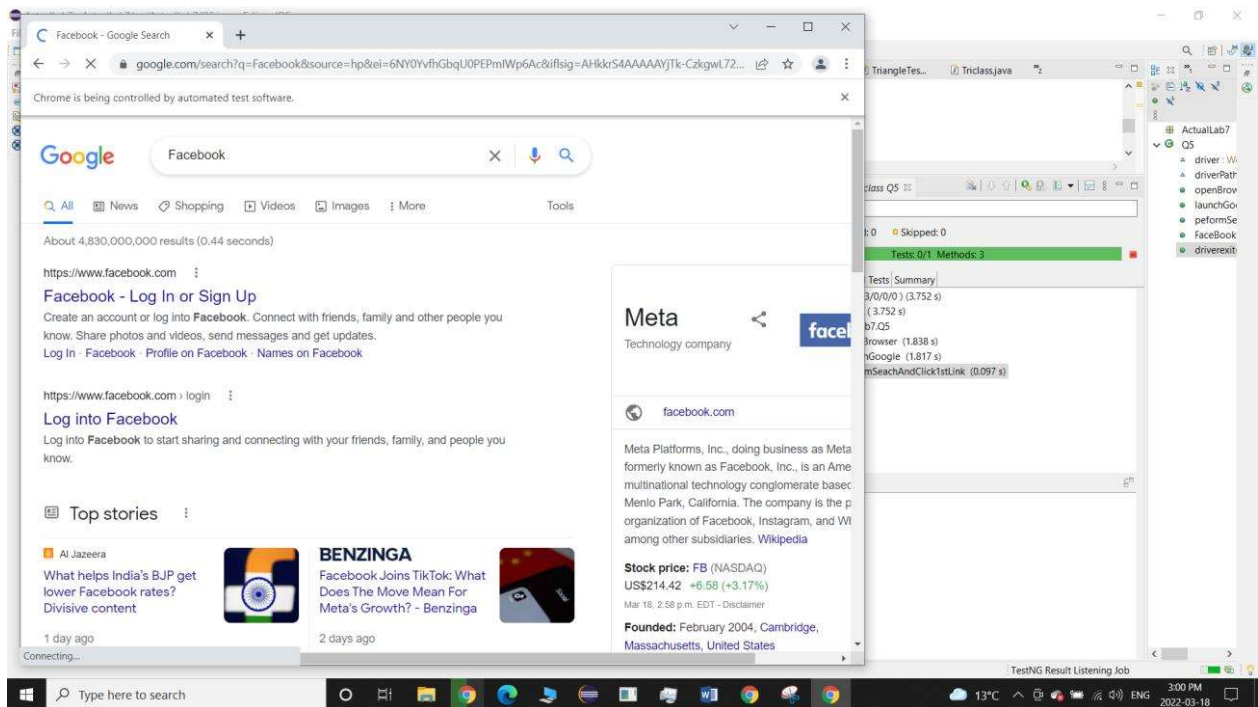
- Passed: 5, Failed: 0, Skipped: 0
- Tests: 1/1, Methods: 5 (13663 ms)
- Summary:
 - Default suite (5/0/0) (13.393 s)
 - Default test (13.393 s)
 - ActualLab7.Q5
 - openBrowser (1.826 s)
 - launchGoogle (1.419 s)
 - performSeachAndClick1stLink (0.12 s)
 - FaceBookPageTitleVerification (5.849 s)
 - driverexit (4.179 s)

The following results were observed on the web driver:

The screenshot shows a web browser window displaying the Google homepage. The search bar contains the text 'Facebook'. The browser's address bar shows 'google.com/?gws_rd=ssl'. The page is controlled by automated test software, as indicated by the message 'Chrome is being controlled by automated test software.'.

On the right, the 'TestNG Result Listening Job' window shows the following results:

- Tests: 0/1, Methods: 3
- Summary:
 - 3/0/0/0 (3.365 s)
 - (3.365 s)
 - b7.Q5
 - Browser (1.826 s)
 - hGoogle (1.419 s)
 - mSeachAndClick1stLink (0.12 s)



Assignment 6

This assignment was coded in the following manner:

```

1  package ActualLab7;
2
3
4  import org.openqa.selenium.By;
5  import org.openqa.selenium.WebDriver;
6  import org.openqa.selenium.chrome.ChromeDriver;
7  import org.testng.annotations.Test;
8
9
10 public class Q6 {
11     |
12     @Test
13     public void executeSession1(){
14         System.setProperty("webdriver.chrome.driver", "chromedriver.exe");
15         WebDriver driver = new ChromeDriver ();
16         driver.get("http://demo.guru99.com/V4/");
17         driver.findElement(By.name("uid")).sendKeys("Driver 1");
18     }
19
20     @Test
21     public void executeSession2(){
22         System.setProperty ("webdriver.chrome.driver","chromedriver.exe");
23         WebDriver driver = new ChromeDriver ();
24         driver.get("http://demo.guru99.com/V4/");
25         driver.findElement (By.name ("uid")).sendKeys ("Driver 2"); }
26
27     @Test
28     public void executeSession3(){
29         System.setProperty ("webdriver.chrome.driver","chromedriver.exe");
30         WebDriver driver = new ChromeDriver ();
31         driver.get ("http://demo.guru99.com/V4/");
32         driver.findElement (By.name ("uid")).sendKeys ("Driver 3"); }
33 }
34

```


The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface. On the left, the 'Console' tab shows the following output:

```
<terminated> Q6 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.wi
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 3:03:36 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 3:03:39 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538896c6:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
ChromeDriver was started successfully.
Mar. 18, 2022 3:03:43 P.M. org.openqa.selenium.remote.ProtocolHandshake
INFO: Detected dialect: W3C
PASSED: executeSession2
PASSED: executeSession1
PASSED: executeSession3

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

On the right, the 'Results of running class Q6' tab shows the following summary:

- Passed: 3, Failed: 0, Skipped: 0
- Tests: 1/1, Methods: 3 (11694 ms)
- Summary:
 - Default suite (3/0/0/0) (11.433 s)
 - Default test (11.433 s)
 - ActualLab7.Q6
 - executeSession1 (4.429 s)
 - executeSession2 (3.253 s)
 - executeSession3 (3.751 s)

The 'Failure Exception' tab is currently empty.

The following results were observed on the web driver:

The screenshot shows a web browser window displaying the 'Guru99 Bank Demo Site'. The site has a navigation bar with links: Selenium, Insurance Project, Agile Project, Bank Project, Security Project, Telecom Project, Payment Gateway Project, New Tours, and SEO. The main content area features the 'Guru99 Bank' logo and a login form with fields for 'UserID' (containing 'Driver 1') and 'Password', and buttons for 'LOGIN' and 'RESET'. Below the login form is a section titled 'Steps To Generate Access'.

Overlaid on the right side of the browser window is a TestNG report window. The report shows the following summary:

- Tests: 0/1, Methods: 1
- Summary:
 - 1/0/0/0 (4.046 s)
 - b7.Q6 (4.046 s)
 - teSession1 (4.046 s)

Guru99 Bank Home Page

demo.guru99.com/V4/

Chrome is being controlled by automated test software.

Guru99 Demo Site

Selenium - Insurance Project Agile Project Bank Project - Security Project Telecom Project

Payment Gateway Project New Tours SEO -

Guru99 Bank

UserID

Password

Steps To Generate Access

Waiting for securepubads.g.doubleclick.net...

TriangleTes... TriclassJava

ActualLab7

- executeSe
- executeSe
- executeSe

Tests: 0/1 Methods: 2

Tests Summary

2/0/0/0	(7.682 s)
(7.682 s)	
b7.Q6	
teSession1	(4.429 s)
teSession2	(3.253 s)

11:5:207 TestNG Result Listening Job

Type here to search

13°C

3:03 PM

2022-03-18

Guru99 Bank Home Page

demo.guru99.com/V4/

Chrome is being controlled by automated test software.

Guru99 Demo Site

Selenium - Insurance Project Agile Project Bank Project - Security Project Telecom Project

Payment Gateway Project New Tours SEO -

Guru99 Bank

UserID

Password

Steps To Generate Access

TriangleTes... TriclassJava

ActualLab7

- executeSe
- executeSe
- executeSe

Tests: 1/1 Methods: 3 (10753 ms)

Tests Summary

3/0/0/0	(10.488 s)
(10.488 s)	
b7.Q6	
teSession1	(4.046 s)
teSession2	(2.921 s)
teSession3	(3.521 s)

11:5:207 TestNG Result Listening Job

Type here to search

13°C

3:03 PM

2022-03-18

Assignment 7

This assignment was coded in the following manner:

```
1 package ActualLab7;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6 import org.testng.Assert;
7 import org.testng.annotations.Test;
8
9 public class Q7 {
10
11     String driverPath = "C:\\chromedriver.exe";
12
13     public WebDriver driver ;
14
15     @Test
16     public void loginToLinkedIn() {
17         System.setProperty("webdriver.chrome.driver", driverPath);
18         driver = new ChromeDriver();
19         driver.get("https://www.linkedin.com/login?fromSignIn=true&trk=guest_homepage-basic_nav-header-signin");
20         driver.findElement(By.id("username")).sendKeys("nayeem.ahmed@ryerson.ca");
21         driver.findElement(By.id("password")).sendKeys("*****");
22         driver.findElement(By.className("btn_primary--large")).click();
23         Assert.assertTrue(driver.getCurrentUrl().contains("www.linkedin.com/feed"));
24         driver.close();
25     }
26 }
```

The following output was yielded by the console and TestNG report:

The screenshot displays the Eclipse IDE interface with two main panels. The left panel, titled 'Console', shows the execution output of the test. It begins with a message indicating the TestNG version (7.4.0) and the successful start of the ChromeDriver. The test method 'loginToLinkedIn' is shown as 'PASSED'. Below this, summary statistics for the 'Default test' and 'Default suite' are provided, both showing 1 test run, 1 pass, 0 failures, and 0 skips. The right panel, titled 'Results of running class Q7', shows a summary of the test results. It indicates that 1 test passed, 0 failed, and 0 were skipped. The test 'loginToLinkedIn' is listed with a duration of 10.57 seconds. The bottom status bar shows 'TestNG Result Listening Job'.

```
<terminated> Q7 [TestNG] C:\Users\Nay\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 99.0.4844.51 (d537ec02474b5afe23684e7963d538)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations
ChromeDriver was started successfully.
Mar. 18, 2022 5:30:19 P.M. org.openqa.selenium.remote.ProtocolHand
INFO: Detected dialect: W3C
PASSED: loginToLinkedIn

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====

Failure Exception
```

The following results were observed on the web driver:

