Web Driver Assignment

1. Write a Web Driver script to navigate to a website and click on a specific link.

```
| 1 package com.WebDriver.Assignments;
| 2 | 30 import java.time.Duration;
| 3 import org.openqa.selenium.By;
| 5 import org.openqa.selenium.kebDriver;
| 6 import org.openqa.selenium.kebDriver;
| 7 import org.openqa.selenium.kebDriver;
| 8 import org.openqa.selenium.kebDriver;
| 8 import org.openqa.selenium.chrome.ChromeDriver;
| 7 import org.openqa.selenium.chromeChromeDriver;
| 8 import org.openqa.selenium.kebDriver script to navigate to a website and click on a specific link.
| 8 import org.openqa.selenium.selenium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genquerium.genq
```

2. Implement a Page Object Model for a login page using Web Driver.

```
package com.WebDriver.Assignments;
3⊖ import java.time.Duration;
  4 import org.openqa.selenium.WebDriver;
  5 import org.openqa.selenium.chrome.ChromeDriver;
  6 import org.testng.annotations.AfterMethod;
  7 import org.testng.annotations.BeforeMethod;
  9 public class BaseTest {
 10
       public static WebDriver driver;
 11
        public LoginPage lp;
 12
 13⊖
        @BeforeMethod
        public void setUp()
 14
 15
 16
            driver= new ChromeDriver();
            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
 17
            driver.manage().window().maximize();
 18
            driver.get("https://www.saucedemo.com/");
 19
 20
            lp=new LoginPage(driver);
 21
 22
 23
        //Close all browsers
 24⊝
        @AfterMethod
 25
        public void tearDown()
 26
        {
 27
            driver.quit();
 28
        }
 29 }
 30
```

```
1 package com.WebDriver.Assignments;
 3⊕ import org.openqa.selenium.WebDriver;
 8 public class LoginPage extends BaseTest {
 90
        public LoginPage(WebDriver driver)
10
 11
             PageFactory.initElements(driver, this);
 12
 13
14
         //Locators
 15⊝
         @FindBy(id="user-name")
16
         WebElement un;
 17⊝
         @FindBy(id="password")
        WebElement pwd;
@FindBy(id="login-button")
 18
 19⊖
 20
         WebElement loginBtn;
         @FindBy(xpath="//span[text()='Products']")
 21⊖
        WebElement inventoryPage;
 22
 23
        //Action methods
 24
 25⊝
         public String getUrl()
 26
 27
             String url=driver.getCurrentUrl();
 28
             return url;
 29
 30⊝
         public String getTitle()
 31
 32
             String title=driver.getTitle();
 33
             return title;
 34
 35⊝
         public void doLogin(String uName,String pWord)
 36
 37
             un.sendKeys(uName);
 38
             pwd.sendKeys(pWord);
 39
             loginBtn.click();
 40
         }
 41 }
     package com.WebDriver.Assignments;
  3⊕ import org.testng.Assert;[
  5⊝ /*
    * Scenario 2:Implement a Page Object Model for a login page using WebDriver.
     * Step 1: Open SwagLabs Application
     * Step 2: Validate url
     * Step 3: Validate Title
  10
     * Step 4: Login with valid credentials
  11 * Step 5: Login with Invlaid password
     * Step 6: Login with Invalid username
     * Step 7: Login with Invalid username and password
 13
     * Step 8: Login with blank username and password
 14
     * Step 3: Validate launch success
 15
 16
 17
     Run All
 18 public class LoginPageTestCase extends BaseTest{
 19⊕
         @Test(priority=1)
         Run | Debua
 20
         public void validateUrl()
 21
 22
             String url=lp.getUrl();
             Assert.assertTrue(url.contains("saucedemo"), "Url is InValid");
 23
 24
             System.out.println("Url is valid: "+url);
  25
 26⊝
         @Test(priority=2)
         public void getTitle()
```

27 28

30

31

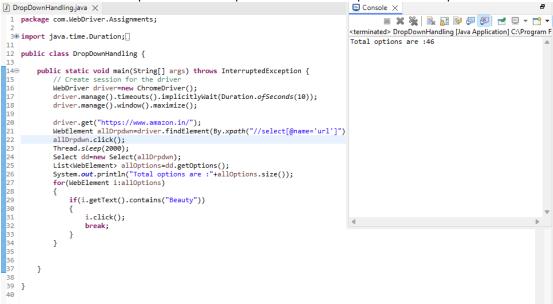
String title=lp.getTitle();

System.out.println("Title is valid: "+title);

Assert.assertTrue(title.contains("Swag Labs"), "Title is InValid");

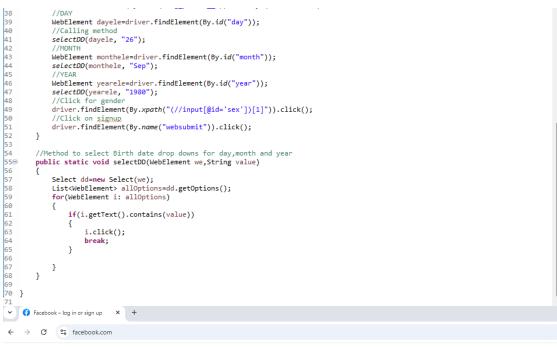
```
33⊜
      @Test(priority=3)
      Run | Debug
      public void validUsernameInvalidPasswordLogin() {
34
           System.out.println("*****Login with Valid Username and Invlaid Password*****");
35
           lp.doLogin("standard_user","dummy");
36
           Assert.assertTrue(driver.getCurrentUrl().contains("saucedemo"), "Fail: Login success");
37
           System.out.println("Pass: Password is wronge!");
38
39
40⊝
      @Test(priority=4)
      Run | Debua
      public void invalidUsernameValidPasswordLogin() {
41
          System.out.println("*****Login with InValid Username and Valid Password****"); lp.doLogin("dummy", "secret_sauce");
42
43
           Assert.assertTrue(driver.getCurrentUrl().contains("saucedemo"), "Fail: Login success");
44
45
          System.out.println("Pass: Username is wronge!");
46
47⊝
      @Test(priority=5)
       Run | Debug
      public void invalidUsernameAndPasswordLogin() {
           System.out.println("*****Login with InValid Username and Password*****"); lp.doLogin("dummy", "dummy");
49
50
           Assert.assertTrue(driver.getCurrentUrl().contains("saucedemo"),"Fail: Login success");
51
          System.out.println("Pass: Username and Password Incorrect!");
52
53
540
      @Test(priority=6)
      Run | Debug
      public void blankLogin() {
55
                                   ***Login with Blank Username and Password*****");
           System.out.println("
56
           lp.doLogin(" "," ");
57
           Assert.assertTrue(driver.getCurrentUrl().contains("saucedemo"), "Fail: Login success");
          System.out.println("Pass: Username and Password are blank!");
60
61⊜
     @Test(priority=7)
      Run | Debug
     public void validLogin() {
    System.out.println("*****Login with Valid Username and Password*****");
63
          lp.doLogin("standard_user", "secret_sauce");
65
          Assert.assertTrue(driver.getCurrentUrl().contains("inventory"), "Fail: Login not success");
          System.out.println("Pass: Login is success!");
66
67
     }
68 }
    https://testng.org/testng-1.0.dtd (doctype)
  1 <?xml version="1.0" encoding="UTF-8"?>
  2 <!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
  3⊖ <suite name="Suite">
  4⊖ <test thread-count="5" name="Test">
  5⊜
        <classes>
           <class name="com.WebDriver.Assignments.LoginPageTestCase"/>
        </classes>
      </test> <!-- Test -->
  9 </suite> <!-- Suite -->
 10
                                                          Console X
<terminated> FrameWorkDesign_assignmentSA.xml [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (19-Sept-2024, 1:14:18 pm – 1:14:39
[RemoteTestNG] detected TestNG version 7.10.2
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Url is valid: https://www.saucedemo.com/
Title is valid: Swag Labs
 *****Login with Valid Username and Invlaid Password*****
Pass: Password is wronge!
   **Login with InValid Username and Valid Password*****
Pass: Username is wronge!
   **Login with InValid Username and Password*****
Pass: Username and Password Incorrect!
 ****Login with Blank Username and Password*****
Pass: Username and Password are blank!
*****Login with Valid Username and Password*****
Pass: Login is success!
Suite
Total tests run: 7, Passes: 7, Failures: 0, Skips: 0
```

3. Write a WebDriver script to handle a dropdown and select an option based on specific criteria.

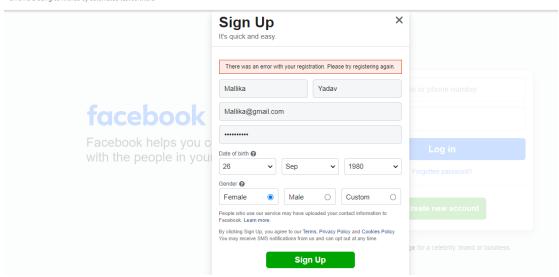


4. Implement a test case using Web Driver to validate the functionality of a registration form.

```
package com.WebDriver.Assignments;
   3⊖ import java.time.Duration;
4 import java.util.List;
5 import org.openqa.selenium.By;
   import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebDement;
import org.openqa.selenium.chrome.ChromeDriver;
           import org.openqa.selenium.support.ui.Select;
                * Scenario 4:Implement a test case using WebDriver to validate the functionality of a registration form.
* Scenario 4:Implement a test case using WebDriver to validate the functionality of a registration of a separate of the separa
                   Step 4: Click on Sign up
18 public class FBRegistrsationForm {
                        public static void main(String[] args) {
                                     //Create session for driver
WebDriver driver=new ChromeDriver();
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
                                     driver.manage().window().maximize();
driver.get("https://www.facebook.com/");
                                      //Click on signup driver.findElement(By.linkText("Create new account")).click();
                                       //Enter details
                                        //First nam
                                        driver.findElement(By.name("firstname")).sendKeys("Mallika");
                                       driver.findElement(By.name("lastname")).sendKeys("Yadav");
                                       driver.findElement(By.name("reg_email__")).sendKeys("Mallika@gmail.com");
                                       driver.findElement(By.name("reg_passwd__")).sendKeys("mallika123");
```



Chrome is being controlled by automated test software



5. Write a Web Driver script to capture a screenshot of a webpage and save it to a specific location

```
package com.WebDriver.Assignments;

| package com.WebDriver.Assignments;
| package com.WebDriver.Assignments;
| package com.WebDriver.Assignments;
| package com.WebDriver.Assignments;
| package com.WebDriver.Bile;
| public class CaptureByjuScreenShot {
| package com.WebDriver.Bile;
| package com.All
| package com.WebDriver.Bile;
| package com.All
| package c
```

