

SELENIUM ASSIGNMENT

- ### 1. Saucedemo login test & login validation using data driven testing.

```

Ans. package TestNG;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
public class SwaglabsDataDrivenTesting {
    WebDriver driver;

    @BeforeTest
    public void setup()
    {
        driver=new ChromeDriver();
    }

    @BeforeMethod
    public void urlload()
    {
        driver.get("https://www.saucedemo.com/v1/");
    }

    @Test
    public void test1() throws Exception
    {
        File f=new File("D:\\Swaglabs.xlsx");
        FileInputStream fi=new FileInputStream(f);
        XSSFWorkbook wb=new XSSFWorkbook (fi);
        XSSFSheet sh=wb.getSheet("Sheet1");

        for(int i=1;i<=sh.getLastRowNum();i++)
        {
            String username=sh.getRow(i).getCell(0).getStringCellValue();
            System.out.println("username="+username);
            String pswrd=sh.getRow(i).getCell(1).getStringCellValue();
            System.out.println("password="+pswrd);

            driver.findElement(By.xpath("//*[@id=\"user-name\"]")).clear();

```

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driver.findElement(By.xpath("//*[@id=\"user-name\"]")).sendKeys(username);
driver.findElement(By.xpath("//*[@id=\"password\"]")).clear();

driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys(pswrd);

driver.findElement(By.id("login-button")).click();
    }

String actual=driver.getTitle();
String exp="Swag Labs";
if(actual.equals(exp))
{
    System.out.println("Login successful");
}
else
{
    System.out.println("Login invalid");
}
}
}

```

```

username=abcd
password=hdbdcb
username=wert
password=lkjh
username=poiuy
password=kjytr
username=edfrt
password=lmnhg
username=standard_user
password=secret_sauce
Login successful
PASSED: test1

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

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

```

2. Perform automation testing.

- 1) Open <https://rishiherbalindia.linker.store/>
- 2) Click My Account and register your details.
- 3) Click login button and login.

- 4) Search Herbal agro growth booster in search bar.
- 5) Click add to wishlist and add that product to your wishlist.
- 6) Then click on link skin & add aloe fairness cream to your wishlist.
- 7) Click All link. Then click Health link. After that click Safety link one after the other.
- 8) Scroll down to the bottom of the page & click About us.
- 9) Take screenshot of the element privacy policy.
- 10) Check the response code of the link
<https://rishiherbalindia.linker.store/>

Ans. **package** MavenProject;
import java.io.File;
import java.net.HttpURLConnection;
import java.net.URL;
import java.time.Duration;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.io.FileHandler;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class RishiHerbalPrgrm {
 WebDriver **driver**;

@BeforeTest
public void setup()
 {
 driver=new ChromeDriver();
 }

@BeforeMethod
public void urlload()
 {
 driver.get("https://rishiherbalindia.linker.store/");
 driver.manage().window().maximize();
 }

@Test

```

public void test1() throws Exception
{
    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(30));
    driver.findElement(By.xpath("//*[@id=\"top-links\"]/ul/li[1]/a/span")).click();
    driver.findElement(By.xpath("//*[@id=\"top-links\"]/ul/li[1]/ul/li[1]/a")).click();

    driver.findElement(By.xpath("//*[@id=\"ls-signup-overlay-v1\"]/div/div/div[2]/form/div[1]/input")).sendKeys("reshmanr29@gmail.com");

    driver.findElement(By.xpath("//*[@id=\"ls-signup-overlay-v1\"]/div/div/div[2]/form/div[2]/input")).sendKeys("Reshmamidhun@24");

    driver.findElement(By.xpath("//*[@id=\"ls-signup-overlay-v1\"]/div/div/div[2]/form/div[3]/label/input")).click();

    driver.findElement(By.xpath("//*[@id=\"ls-signup-overlay-v1\"]/div/div/div[2]/form/button")).click();

    driver.findElement(By.xpath("//*[@id=\"ls-signup-overlay-v1\"]/div/div/div[1]/button/span")).click();
    driver.findElement(By.xpath("//*[@id=\"top-links\"]/ul/li[1]/a/span")).click();
    driver.findElement(By.xpath("//*[@id=\"top-links\"]/ul/li[1]/ul/li[2]/a")).click();

    driver.findElement(By.xpath("//*[@id=\"cont-login-with-email\"]/form/div[1]/input")).sendKeys("reshmanr29@gmail.com");

    driver.findElement(By.xpath("//*[@id=\"cont-login-with-email\"]/form/div[2]/input")).sendKeys("Reshmamidhun@24");
    driver.findElement(By.xpath("//*[@id=\"cont-login-with-email\"]/form/button[1]")).click();
    Thread.sleep(3000);
    driver.findElement(By.xpath("//*[@id=\"search\"]/input")).sendKeys("Herbal agro growth booster");
    driver.findElement(By.xpath("//*[@id=\"search\"]/span/button/i")).click();
    JavascriptExecutor js=(JavascriptExecutor) driver;
    js.executeScript("arguments[0].scrollIntoView();",
    driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/a")));
    WebElement
    mouse=driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/a"));
    Actions act=new Actions(driver);
    act.moveToElement(mouse).perform();

    driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/div[2]/div[2]/ul/li[1]/button/span")).click();
    driver.findElement(By.xpath("//*[@id=\"column-left\"]/div[1]/div[2]/ul/li[4]/a")).click();
    JavascriptExecutor js1=(JavascriptExecutor) driver;
    js.executeScript("arguments[0].scrollIntoView();",
    driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/a")));
    WebElement
    mouse1=driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/a"));
    Actions act1=new Actions(driver);
    act1.moveToElement(mouse1).perform();

    driver.findElement(By.xpath("//*[@id=\"content\"]/div[3]/div[1]/div/div/div[1]/div/div[2]/div[2]/ul/li[1]/button/span")).click();

```

```

        JavascriptExecutor js2=(JavascriptExecutor) driver;
js.executeScript("arguments[0].scrollIntoView();",
driver.findElement(By.xpath("//*[@id=\"menu\"]")));
driver.findElement(By.xpath("//*[@id=\"menu\"]/ul/li[1]/a")).click();
driver.findElement(By.xpath("//*[@id=\"menu\"]/ul/li[2]/a")).click();
driver.findElement(By.xpath("//*[@id=\"menu\"]/ul/li[3]/a")).click();
        JavascriptExecutor js3=(JavascriptExecutor) driver;
        js.executeScript("window.scrollTo(0,1000)", "");

driver.findElement(By.xpath("/html/body/div/footer/div[1]/div/div[2]/div[2]/div/ul/li[2]/a")).click();
JavascriptExecutor js4=(JavascriptExecutor) driver;
js.executeScript("window.scrollTo(0,5000)", "");
WebElement
privacy=driver.findElement(By.xpath("/html/body/div/footer/div[1]/div/div[2]/div[4]/div/ul/li[1]/a"));
        File src=privacy.getScreenshotAs(OutputType.FILE);
        FileHandler.copy(src, new File("./Screenshots/privacy policy.png") );

        URL ob=new URL("https://rishiherbalindia.linker.store/");
        HttpURLConnection con=(HttpURLConnection)ob.openConnection();
        con.connect();
        if(con.getResponseCode()==200)
        {
                System.out.println("Valid url");
        }
        else
        {
                System.out.println("Invalid url");
        }
    }
}

```

```

Valid url
PASSED: MavenProject.RishiHerbalPrgrm.test1

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

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

```

3. Open amazon.in site, search mobile phones, verify the title is Amazon.in:mobile phones using soft assertion. Click first phone details, click add to cart, click go to cart.

Ans. `package TestNG;`

```

import java.time.Duration;
import java.util.Set;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
public class AmazonWindowHandling {
    WebDriver driver;

```

```

        @BeforeTest
        public void setup() {
            driver=new ChromeDriver();
        }
        @BeforeMethod
        public void urlloading() {
            driver.get("https://www.amazon.in/");
            driver.manage().window().maximize();
        }
        @Test
        public void test1() throws Exception {
            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(30));
            driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("Mobile
Phones");
            driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
            String actualtitle=driver.getTitle();
            System.out.println(actualtitle);
            String exp="Amazon.in : Mobile Phones";
            if(actualtitle.equals(exp)) {
                System.out.println("pass");
            }
            else {
                System.out.println("fail");
            }

            String parentWindow=driver.getWindowHandle();

            driver.findElement(By.xpath("//*[@id=\"search\"]/div[1]/div[1]/div/span[1]/div[1]/div[3]/div/div/div/div/span/div/div/div[2]/div/div/div[1]/h2/a/span")).click();

            Set<String> allWindows = driver.getWindowHandles();
            for (String a : allWindows) {
                if (!a.equalsIgnoreCase(parentWindow)) {
                    driver.switchTo().window(a);

```

```
Thread.sleep(3000);
JavascriptExecutor js=(JavascriptExecutor) driver;

js.executeScript("window.scrollTo(0,700)", "");
```

```
driver.findElement(By.xpath("/html/body/div[4]/div/div[3]/div[8]/div[8]/div/div[1]/div/div[1]/div/div/div[2]/div/div[2]/div/form/div/div/div[38]/div[1]/span/span/span/input")).click();
```

```
driver.findElement(By.xpath("//*[@id=\"attach-sidesheet-view-cart-button\"]/span/input")).click();
```

```
}
```

```
}
```

```
}
```

```
}
```

```
Amazon.in : Mobile Phones
```

```
pass
```

```
PASSED: test1
```

```
=====
```

```
Default test
```

```
Tests run: 1, Failures: 0, Skips: 0
```

```
=====
```

```
=====
```

```
Default suite
```

```
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

```
=====
```