**Module 7 – Selenium Webdriver**

**Q.1** W.A.J.Script for Locating links by linkText() and partialLinkText()

Ans. Linktext()

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q1 {

public static void main(String[] args) {

String url = "https://www.techbeamers.com/websites-to-practice-selenium-webdriver-online/#5httpautomationpracticecomindexphp";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement selenium\_tutorial = driver.findElement(By.*linkText*("Selenium Tutorial"));

selenium\_tutorial.click();

}

}

🡪 Partiallinktext()

public class Q1 {

public static void main(String[] args) throws InterruptedException {

String url = "https://www.facebook.com/";

WebDriver driver = new DriverConnection().getDriver(url);

List<WebElement> list = driver.findElements(By.*partialLinkText*("Privacy"));

System.***out***.println(list.size());

for(WebElement element: list) {

System.***out***.println(element.getText());

}

list.get(1).click();

Thread.*sleep*(3000);

driver.navigate().back();

}

}

Q.2 W.A.J.Script for Selecting multiple items in a drop dropdown.

Ans.

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.ui.Select;

public class Q2 {

public static void main(String[] args) {

String url = "https://testpages.eviltester.com/styled/basic-html-form-test.html";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement dropdown = driver.findElement(By.*name*("dropdown"));

Select Fromdropdown = new Select(dropdown);

Fromdropdown.selectByValue("dd5");

}

}

Q.3 W.A.J. script to use different methods to manage the windows-alerts and pop ups

Ans.

package basic;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q3 {

public static void main(String[] args) throws InterruptedException {

String url = "https://testpages.eviltester.com/styled/alerts/alert-test.html";

WebDriver driver = new DriverConnection().getDriver(url);

//First Alert

// WebElement AlertButton = driver.findElement(By.id("alertexamples"));

// AlertButton.click();

// Alert a1 = driver.switchTo().alert();

// Thread.sleep(2000);

// a1.accept();

//Second alert

// WebElement button2 = driver.findElement(By.id("confirmexample"));

// button2.click();

// Alert a2 = driver.switchTo().alert();

// Thread.sleep(2000);

// a2.dismiss();

//Third alert

WebElement button3 = driver.findElement(By.*id*("promptexample"));

button3.click();

Alert a3 = driver.switchTo().alert();

Thread.*sleep*(2000);

a3.sendKeys("Hello This is Pragnesh Sharma");

a3.accept();

}

}

Q.4 W.A.J.script to register your self in Gmail.

Ans.

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q4 {

public static void main(String[] args) throws InterruptedException {

String url = "https://accounts.google.com/v3/signin/identifier?continue=https%3A%2F%2Fmail.google.com%2Fmail%2Fu%2F0%2F&emr=1&followup=https%3A%2F%2Fmail.google.com%2Fmail%2Fu%2F0%2F&ifkv=AYZoVheFiSydwY9I6-ifXcgoWQ-e\_ADUMb9HypvfSNuvYsNCy160kob4m6bVVRYZmGZ\_suAfZ\_Ch&osid=1&passive=1209600&service=mail&flowName=GlifWebSignIn&flowEntry=ServiceLogin&dsh=S1879137352%3A1694426469145714&theme=glif";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement email = driver.findElement(By.id("identifierId"));

email.sendKeys("selenium123@gmail.com");

Thread.sleep(2000);

WebElement next = driver.findElement(By.xpath("//\*[@id=\"identifierNext\"]/div/button"));

next.click();

Thread.sleep(4000);

WebElement pass = driver.findElement(By.xpath("//\*[@id=\"password\"]/div[1]/div/div[1]/input"));

pass.sendKeys("12345667");

Thread.sleep(2000);

WebElement next2 = driver.findElement(By.xpath("//\*[@id=\"passwordNext\"]/div/button"));

next2.click();

}

}

Q.5 W.A.J. Script To perform the radio button to select one by one in loop <http://demo.guru99.com/test/radio.html>

Ans.

package basic;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q5 {

public static void main(String[] args) {

String url = "https://demo.guru99.com/test/radio.html";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement radioButton = driver.findElement(By.*id*("vfb-7-1"));

radioButton.click();

WebElement radioButton2 = driver.findElement(By.*id*("vfb-7-2"));

radioButton2.click();

WebElement radioButton3 = driver.findElement(By.*id*("vfb-7-3"));

radioButton3.click();

}

}

Q.6 W.A.J. script To write the script for image of logo facebook using xpath.

Ans.

package basic;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeOptions;

import org.openqa.selenium.interactions.Actions;

public class q6 {

public static void main(String[] args) throws InterruptedException {

String url = "https://www.facebook.com/";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement email = driver.findElement(By.*name*("email"));

email.sendKeys("8155887857");

WebElement password = driver.findElement(By.*name*("pass"));

password.sendKeys("1234567");

WebElement Login = driver.findElement(By.*name*("login"));

Login.click();

WebElement fblogo = driver.findElement(By.*xpath*("//\*[@id=\"mount\_0\_0\_SF\"]/div/div[1]/div/div[2]/div[1]/a"));

fblogo.clear();

}

}

Q.7 W.A.J.Script To write a script for drop down. http://demo.guru99.com/test/newtours/register.php

Ans.

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.ui.Select;

public class Q7 {

public static void main(String[] args) {

String url = "https://demo.guru99.com/test/newtours/register.php";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement country = driver.findElement(By.*name*("country"));

Select countries = new Select(country);

countries.selectByVisibleText("INDIA");

}

}

Q.8 W.A.J.Script To use Mouse and Keyboard event using Action class

1.Mouse Hover Event

Ans.

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

public class Q8 {

public static void main(String[] args) throws InterruptedException {

String url = "https://www.flipkart.com/";

WebDriver driver = new DriverConnection().getDriver(url);

Thread.*sleep*(3000);

WebElement login = driver.findElement(By.*xpath*("/html/body/div[2]/div/div/button"));

login.click();

WebElement grocery = driver.findElement(By.*linkText*("Grocery"));

WebElement mobile = driver.findElement(By.*linkText*("Mobiles"));

WebElement fashion = driver.findElement(By.*linkText*("Fashion"));

WebElement elect = driver.findElement(By.*linkText*("Electronics"));

WebElement HF = driver.findElement(By.*linkText*("Home & Furniture"));

WebElement aplliance = driver.findElement(By.*linkText*("Appliances"));

Actions action = new Actions(driver);

action.moveToElement(grocery).build().perform();

action.moveToElement(mobile).build().perform();

action.moveToElement(fashion).build().perform();

action.moveToElement(elect).build().perform();

action.moveToElement(HF).build().perform();

action.moveToElement(aplliance).build().perform();

Thread.*sleep*(3000);

driver.findElement(By.*linkText*("Appliances")).click();

Thread.*sleep*(2000);

driver.close();

}

}

2. Keyboard event

Ans.

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

public class Q8 {

public static void main(String[] args) throws InterruptedException {

String url = "https://demoqa.com/automation-practice-form";

WebDriver driver = new DriverConnection().getDriver(url);

JavascriptExecutor js = (JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,50)");

WebElement sub = driver.findElement(By.*id*("subjectsContainer"));

Actions action = new Actions(driver);

action.click(sub).sendKeys("m").pause(3).sendKeys(*Keys*.***ENTER***).build().perform();

}

}

Q.9 W.A.J. Script How to handled Alert in selenium [http://demo.guru99.com/test/delete\_customer.php](http://demo.guru99.com/test/delete_customer.php%20)

ans.

package basic;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q9 {

public static void main(String[] args) throws InterruptedException {

String url = "https://demo.guru99.com/test/delete\_customer.php";

WebDriver driver = new DriverConnection().getDriver(url);

WebElement custID = driver.findElement(By.*name*("cusid"));

custID.sendKeys("123");

WebElement submit = driver.findElement(By.*name*("submit"));

submit.click();

Thread.*sleep*(2000);

Alert a1 = driver.switchTo().alert();

a1.accept();

Thread.*sleep*(2000);

Alert a2 = driver.switchTo().alert();

a2.accept();

driver.close();

}

}

Q.10 W.A.J. Script To find the total hyperlink from this web page <http://demo.guru99.com/test/web-table-element.php>

Ans.

package basic;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q10 {

public static void main(String[] args) {

String url = "https://demo.guru99.com/test/web-table-element.php";

WebDriver driver = new DriverConnection().getDriver(url);

List<WebElement> list = driver.findElements(By.*tagName*("a"));

System.***out***.println(list.size());

for(WebElement element: list) {

System.***out***.println(element.getText());

}

}

}

Q.11 W.a.junit program to handled Assert class with all method to check its pass or fail

Ans.

package junit;

import static org.junit.Assert.*assertArrayEquals*;

import static org.junit.Assert.*assertEquals*;

import static org.junit.Assert.*assertNotNull*;

import static org.junit.Assert.*assertNotSame*;

import static org.junit.Assert.*assertNull*;

import static org.junit.Assert.*assertSame*;

import static org.junit.Assert.*assertTrue*;

import org.junit.Test;

public class Q11 {

*@Test*

public void test() {

String str1="Junit";

String str2="Junit";

String str3="test";

String str4="test";

String str5=null;

int i=23;

int j=20;

int[] a = { 1, 2, 3 };

int[] b = { 1, 2, 3,4 };

// assertEquals(23, 20);

// assertEquals(123456, 123456);

// assertEquals(str1,str2);

// assertEquals(str1,str3);

// assertSame(str3, str4);

// assertSame(str4, str1);

// assertNotSame(str1, str3);

// assertNotSame(str1, str2);

//

// assertNotNull(str1);

// assertNotNull(str5);

//

// assertNull(str5);

// assertNull(str2);

//

// assertTrue(i>j);

// assertTrue(i<j);

//

*assertArrayEquals*(a ,b);

}

}

Q.12 W.a. junit program to perform test with webdriver to login process of facebook

Ans.

package junit;

import java.sql.Driver;

import org.junit.AfterClass;

import org.junit.BeforeClass;

import org.junit.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

public class Q12 {

static WebDriver *driver*;

*@BeforeClass*

public static void beforeClass() {

*driver* = new DriverConnnection().getDriver();

*driver*.get("https://www.facebook.com/");

}

*@Test*

public void testFBlogin() throws InterruptedException {

*driver*.findElement(By.*id*("email")).sendKeys("heyTest@gmail.com");

*driver*.findElement(By.*id*("pass")).sendKeys("test@123");

*driver*.findElement(By.*name*("login")).click();

Thread.*sleep*(5000);

}

*@AfterClass*

public static void afterClass() {

*driver*.close();

}

}

Q.13 W.a. junit program to check gmail login using with @before,@after,@Test

Ans.

package junit;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Q14 {

static WebDriver *driver*;

*@Before*

public void before() {

*driver* = new DriverConnnection().getDriver();

*driver*.get("https://accounts.google.com/v3/signin/identifier?continue=https%3A%2F%2Fmail.google.com%2Fmail%2Fu%2F0%2F&emr=1&flowEntry=ServiceLogin&flowName=GlifWebSignIn&followup=https%3A%2F%2Fmail.google.com%2Fmail%2Fu%2F0%2F&ifkv=AYZoVhfrzkvjjpRWJ4b7-F47\_hzcXajDdPFW1QxV18Syg17uKSYIu2WbXiQNraFRKjONKSxJIGatuQ&osid=1&passive=1209600&service=mail&theme=glif&dsh=S-2113387413%3A1695220216890347");

}

*@Test*

public void gmailLogin() throws InterruptedException {

WebElement email = *driver*.findElement(By.*name*("identifier"));

email.sendKeys("hello123@gmail.com");

Thread.*sleep*(2000);

WebElement nextButton = *driver*.findElement(By.*id*("identifierNext"));

nextButton.click();

Thread.*sleep*(3000);

WebElement pass = *driver*.findElement(By.*name*("Passwd"));

pass.sendKeys("hello123");

Thread.*sleep*(2000);

WebElement next = *driver*.findElement(By.*id*("passwordNext"));

next.click();

Thread.*sleep*(5000);

}

*@After*

public void after() {

*driver*.close();

}

}

Q.14 W.a. junit program to use parameterized demo with multiple parameter of Facebook login in junit

Ans.

package junit;

import java.util.Arrays;

import java.util.List;

import org.junit.AfterClass;

import org.junit.BeforeClass;

import org.junit.Test;

import org.junit.runner.RunWith;

import org.junit.runners.Parameterized;

import org.junit.runners.Parameterized.Parameters;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

*@RunWith*(Parameterized.class)

public class P08\_FBloginPArameters {

String email;

String password;

public P08\_FBloginPArameters(String email,String password) {

this.email=email;

this.password=password;

}

static WebDriver *driver*;

*@BeforeClass*

// for opening every combination in single chrome driver

public static void brforeClass() {

*driver* = new DriverConnnection().getDriver();

*driver*.get("https://www.facebook.com/");

}

// @AfterClass

// public static void afterClass() {

// driver.close();

// }

*@Test*

public void FBlogin() throws InterruptedException {

// For opening in new chrome driver with each new combination

// WebDriver driver = new DriverConnnection().getDriver();

// driver.get("https://www.facebook.com/");

WebElement emailEle = *driver*.findElement(By.*id*("email"));

emailEle.clear();

emailEle.sendKeys(email);

Thread.*sleep*(1000);

WebElement passwordEle = *driver*.findElement(By.*id*("pass"));

passwordEle.clear();

passwordEle.sendKeys(password);

Thread.*sleep*(1000);

WebElement login = *driver*.findElement(By.*name*("login"));

login.click();

}

*@Parameters*

public static List<Object[]> getData() {

Object[][] obj = new Object[4][2];

obj[0][0] = "heyincorrect@gmail.com";

obj[0][1] = "heyincorrect@123";

obj[1][0] = "hello123incorrect@gmail.com";

obj[1][1] = "hello12correct@456";

obj[2][0] = "holaa123correct@gmail.com";

obj[2][1] = "holaa23incorrect@123";

obj[3][0] = "8155887857";

obj[3][1] = "correctPassword";

return Arrays.*asList*(obj);

}

}

Q.15 W.a. TestNG program to perform test with webdriver to login processof facebook

Ans.

package assignment;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q15 {

*@Test*

public void loginFB() throws InterruptedException {

WebDriver driver = new DriverConnection().getDriver();

driver.get("https://www.facebook.com/");

driver.findElement(By.*id*("email")).sendKeys("8155887857");

driver.findElement(By.*id*("pass")).sendKeys("19972312@");

driver.findElement(By.*name*("login")).click();

Thread.*sleep*(3000);

}

}

Xml file

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Suite">

<test thread-count="5" name="Test">

<classes>

<class name="assignment.Q15"/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

Q.16 W.a. TestNG program to check gmail login using with @beforetest,@aftertest,@Test

Ans.

package assignment;

import java.sql.Driver;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q16 {

WebDriver driver;

*@BeforeTest*

public void beforeTest() throws InterruptedException {

driver = new DriverConnection().getDriver();

driver.get("https://mail.google.com/");

Thread.*sleep*(3000);

}

*@Test*

public void login() throws InterruptedException {

WebElement email = driver.findElement(By.*name*("identifier"));

email.sendKeys("pragnesh.sharma2312@gmail.com");

Thread.*sleep*(3000);

WebElement nextbutton = driver.findElement(By.*id*("identifierNext"));

nextbutton.click();

Thread.*sleep*(6000);

WebElement pass = driver.findElement(By.*name*("Passwd"));

pass.sendKeys("19972312@");

Thread.*sleep*(2000);

WebElement nextpass = driver.findElement(By.*id*("passwordNext"));

nextpass.click();

Thread.*sleep*(6000);

}

*@AfterTest*

public void afterTest() {

driver.close();

}

}

Q.17 W.a. TestNG program to use parameterized demo with multiple parameter of Facebook login with TestNG.

Ans.

package assignment;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Parameters;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q17 {

WebDriver driver;

*@BeforeTest*

public void beforeTest() throws InterruptedException {

driver = new DriverConnection().getDriver();

driver.get("https://www.facebook.com/");

Thread.*sleep*(3000);

}

*@Parameters*({"username","password"})

*@Test*

public void FBlogin(String username,String password) throws InterruptedException{

WebElement email = driver.findElement(By.*id*("email"));

email.sendKeys(username);

Thread.*sleep*(2000);

WebElement pass = driver.findElement(By.*id*("pass"));

pass.sendKeys(password);

System.***out***.println("Logging in with username : " + username + "and Password : " + password);

Thread.*sleep*(3000);

WebElement login = driver.findElement(By.*name*("login"));

login.click();

}

}

🡺 .XML file

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Suite">

<test thread-count="5" name="Test1">

<parameter name="username" value="8155887857"/>

<parameter name="password" value="19972312@"/>

<classes>

<class name="assignment.Q17"></class>

</classes>

</test>

<test thread-count="5" name="Test2">

<parameter name="username" value="hello@gmail.com"/>

<parameter name="password" value="hello123"/>

<classes>

<class name="assignment.Q17"></class>

</classes>

</test>

<test thread-count="5" name="Test3">

<parameter name="username" value="hello123@yahoo.com"/>

<parameter name="password" value="hello@123"/>

<classes>

<class name="assignment.Q17"></class>

</classes>

</test><!-- Test -->

</suite> <!-- Suite -->

Q.18 W.a. TestNG program to create group with testing.xml file

Ans.

package assignment;

import org.testng.annotations.Test;

public class Q18 {

*@Test* (groups = "first")

public void shoppingUserRegistration() {

System.***out***.println("User Registration");

}

*@Test*(groups = {"buy","first"})

public void UserLogin() {

System.***out***.println("User login");

}

*@Test*(groups = "first")

public void UserPurchaseDirect() {

System.***out***.println("purchase successful");

}

*@Test*(groups = "buy")

public void AddToCart() {

System.***out***.println("added to cart");

}

*@Test*

public void AddtoWishlist() {

System.***out***.println("Added to wishlist");

}

*@Test*

public void sortProduct() {

System.***out***.println("sorted product");

}

*@Test*(groups = "buy")

public void FilterProduct() {

System.***out***.println("product filtered");

}

*@Test*(groups = "first")

public void payViaDebitCard() {

System.***out***.println("debit card payment");

}

*@Test*

public void payViaCreditCard() {

System.***out***.println("credit card payment");

}

*@Test*(groups = "buy")

public void payViaUPI() {

System.***out***.println("UPI payment");

}

}

.XML file ->

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Suite">

<test thread-count="5" name="Test">

<groups>

<run>

<include name="first"/>

<include name="buy"/>

</run>

</groups>

<classes>

<class name="assignment.Q18"/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

Q.19 w.a. TestNG program to create dataprovider

Ans.

package assignment;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q19 {

static WebDriver *driver*;

*@BeforeTest*

public static void openBrowser() throws InterruptedException {

*driver* = new DriverConnection().getDriver();

*driver*.get("https://www.instagram.com/");

Thread.*sleep*(3000);

}

*@Test*(dataProvider = "inputValues")

public void InstaLogin(String email,String password) throws InterruptedException {

WebElement emailEle = *driver*.findElement(By.*xpath*("//\*[@id=\"loginForm\"]/div/div[1]/div/label/input"));

emailEle.clear();

emailEle.sendKeys(email);

Thread.*sleep*(2000);

WebElement passEle = *driver*.findElement(By.*xpath*("//\*[@id=\"loginForm\"]/div/div[2]/div/label/input"));

passEle.clear();

passEle.sendKeys(password);

Thread.*sleep*(2000);

// WebElement login = driver.findElement(By.xpath("//\*[@id=\"loginForm\"]/div/div[3]"));

// login.click();

}

*@DataProvider*(name = "inputValues")

public static Object[][] data(){

Object obj[][] = new Object [4][2];

obj[0][0] = "wrongEmail@gmail.com";

obj[0][1] = "wrongPass123";

obj[1][0] = "wrongEmail@gmail.com";

obj[1][1] = "RightPass123";

obj[2][0] = "RightEmail@gmail.com";

obj[2][1] = "wrongPass123";

obj[3][0] = "RightEmail@gmail.com";

obj[3][1] = "RightPass123";

return obj;

}

*@AfterTest*

public void closeBrowser() {

*driver*.close();

}

}