Module – 7 (Selenium Webdriver)

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

**package** Assigmentmodel7;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** linkTextandpartialLinkText {

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

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.get("https://phptravels.com/demo/");

Thread.*sleep*(2000);

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//\*[@id=\"mynavbar\"]/ul/li[2]/a/span")).click();

Thread.*sleep*(2000);

driver.findElement(By.*linkText*("CMSModules")).click()

Thread.*sleep*(2000);

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

Thread.*sleep*(2000);

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

Thread.*sleep*(2000);

driver.clo11se();

}

}

1. **W.A.J.Script for Selecting multiple items in a drop dropdown.**

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class dropdropdown {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("https://phptravels.com/demo/");

Thread.sleep(2000);

driver.manage().window().maximize();

Thread.sleep(2000);

driver.findElement(By.linkText("Product")).click();

Thread.sleep(2000);

driver.findElement(By.linkText("Themes")).click();

Thread.sleep(2000);

driver.findElement(By.linkText("Features")).click();

Thread.sleep(2000);

driver.findElement(By.linkText("CMS Modules")).click();

Thread.sleep(2000);

driver.findElement(By.linkText("Company")).click();

Thread.sleep(2000);

driver.close();

}

}

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

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

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

public class windowsalertsandpopups {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

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

Thread.sleep(2000);

driver.manage().window().maximize();

Thread.sleep(2000);

driver.findElement(By.linkText("Contact Us")).click();

Thread.sleep(2000);

driver.findElement(By.id("email-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("khushi38@gamil.com");

Thread.sleep(2000);

driver.findElement(By.id("firstname-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("khushi");

Thread.sleep(2000);

driver.findElement(By.id("lastname-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("patel");

Thread.sleep(2000);

driver.findElement(By.id("company-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("TOPS");

Thread.sleep(2000);

driver.findElement(By.id("jobtitle-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("software testing and automaction");

Thread.sleep(2000);

driver.findElement(By.id("phone-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("9173816590");

Thread.sleep(2000);

driver.findElement(By.id("country-7e18a454-1995-49f5-a907-ddc7be450646")).sendKeys("United States");

Thread.sleep(2000);

driver.close();

}

}

1. **W.A.J.script to register your self in Gmail.**

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Gmailmyself {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("https://accounts.google.com/v3/signin/challenge/pwd?TL=ALgCv6wPuTK6lGpzH\_FK\_EtotMKqS3Yjt7j72WOy1J5J-aHR6qaR9qkDNmKT-v-X&checkConnection=youtube%3A528&checkedDomains=youtube&cid=1&continue=https%3A%2F%2Fmail.google.com%2Fmail%2F&dsh=S-801826232%3A1752214991630212&flowEntry=ServiceLogin&flowName=GlifWebSignIn&hl=en&ifkv=AdBytiMDIxbaO7mF\_JpUz-Rn0kNA98fZxuN-c1Cb\_srH4zrS\_UQ1iGhG4z6uUHyOvN-RZs29SRBeJQ&pstMsg=1");

Thread.sleep(2000);

driver.manage().window().maximize();

Thread.sleep(2000);

driver.findElement(By.id("identifierId")).sendKeys("Topstesting825@gmail.com");

Thread.sleep(2000);

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

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id=\"next\"]/div/div/a")).click();

driver.findElement(By.id("identifierId")).sendKeys("Topstesting825@gmail.com");

Thread.sleep(2000);

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

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id=\"next\"]/div/div/a")).click();

driver.findElement(By.xpath("//\*[@id=\"password\"]/div[1]/div/div[1]/input")).sendKeys("tops@12345");

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id=\"passwordNext\"]/div/button/div[3]")).click();

Thread.sleep(2000);

driver.close();

}

}

1. **W.A.J. Script To perform the radio button to select one by one in loop** [**https://demo.automationtesting.in/Register.html**](https://demo.automationtesting.in/Register.html)**.**

**package** Assigmentmodel7;

**import** java.util.List;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

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

**import** java.util.concurrent.TimeUnit;

**public** **class** radiobutton {

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

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.manage().window().maximize();

driver.get("https://demo.automationtesting.in/Register.html");

List<WebElement> radios = driver.findElements(By.*name*("radiooptions"));

**for** (WebElement radio : radios)

{

radio.click();

System.***out***.println("Selected: " + radio.getAttribute("value"));

Thread.*sleep*(1000);

}

driver.close();

}

}

1. **W.A.J. script To write the script for image of logo facebook using xpath.**

**package** Assigmentmodel7;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** facebook {

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

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

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

Thread.*sleep*(2000);

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

**if**(logo.isDisplayed())

{

System.***out***.println("Facebook logo is visible.");

}

**else** {

System.***out***.println("Facebook logo is not visible");

}

driver.close();

}

}

1. **W.A.J.Script To write a script for drop down.**

**package** Assigmentmodel7;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

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

**public** **class** dropdownautomactiontesting {

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

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.get("https://demo.automationtesting.in/Register.html");

Thread.*sleep*(2000);

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

Thread.*sleep*(2000);

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

Select skills = **new** Select(skillsElement);

skills.selectByVisibleText("Android");

Thread.*sleep*(2000);

driver.close();

}

}

1. **W.A.J.Script To use Mouse and Keyboard event using Action class**

**1. Mouse Hover Even**

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

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

public class MouseHoverDemo {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("https://demo.automationtesting.in/Register.html");

Thread.sleep(2000);

driver.manage().window().maximize();

Thread.sleep(2000);

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

Thread.sleep(2000);

WebElement skillsElement = driver.findElement(By.id("Skills"));

Select skills = new Select(skillsElement);

skills.selectByVisibleText("Android");

Thread.sleep(2000);

driver.close();

}

}

**2**. **Keyboard event**

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

//import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class Keyboardevent {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("https://demo.automationtesting.in/SignIn.html");

Thread.sleep(2000);

driver.manage().window().maximize();

Thread.sleep(2000);

driver.findElement(By.xpath("/html/body/div/div/div[2]/input")).sendKeys("khushi");

Thread.sleep(2000);

driver.findElement(By.xpath("/html/body/div/div/div[3]/input")).sendKeys("12345");

Thread.sleep(2000);

driver.close();

}

}

1. **W.A.J. Script How to handled Alert in selenium** [**https://demo.automationtesting.in/Alerts.html**](https://demo.automationtesting.in/Alerts.html%20)

**package** Assigmentmodel7;

**import** org.openqa.selenium.Alert;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.interactions.Actions;

**public** **class** HowtohandledAlertinselenium {

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

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.get("https://demo.automationtesting.in/Alerts.html");

Thread.*sleep*(2000);

driver.manage().window().maximize();

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("/html/body/div[1]/div/div/div/div[1]/ul/li[2]/a")).click();

Thread.*sleep*(2000);

driver.findElement(By.*xpath*("//\*[@id=\"CancelTab\"]/button")).click();

Thread.*sleep*(2000);

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

String alertMessage = alert.getText();

System.***out***.println("Alert Message: " + alertMessage);

driver.close();

}

}

1. **W.A.J. Script To find the total hyperlink from this web page** [**https://qavbox.github.io/demo/webtable/**](https://qavbox.github.io/demo/webtable/)

package Assigmentmodel7;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class hyperlinkDemo {

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

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("https://qavbox.github.io/demo/webtable/");

driver.manage().window().maximize();

driver.findElement(By.xpath("//\*[@id=\"table01\"]/tbody/tr[1]/td[1]/input")).click();

Thread.sleep(2000);

driver.findElement(By.id("btn")).click();

Thread.sleep(2000);

driver.close();

}

}

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

package Assignment.testing;

import org.testng.annotations.Test;

import org.junit.Assert;

public class AssertclassDemo {

@Test

public void testAssertEquals() {

Assert.assertEquals("Checking if values are equal", 5, 5);

}

@Test

public void testAssertNotEquals() {

Assert.assertNotEquals("Checking if values are not equal", 5, 10);

}

@Test

public void testAssertTrue() {

Assert.assertTrue("Should be true", 10 > 5);

}

@Test

public void testAssertFalse() {

Assert.assertFalse("Should be false", 5 > 10);

}

@Test

public void testAssertNull() {

Assert.assertNull("Should be null", null);

}

@Test

public void testAssertNotNull() {

Assert.assertNotNull("Should not be null", "JUnit");

}

@Test

public void testAssertSame() {

String str = "hello";

String sameStr = str;

Assert.assertSame("Both references should point to same object", str, sameStr);

}

@Test

public void testAssertNotSame() {

String str1 = new String("hello");

String str2 = new String("hello");

Assert.assertNotSame("Should not be same reference", str1, str2);

}

@Test

public void testAssertArrayEquals() {

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

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

Assert.assertArrayEquals("Arrays should be equal", expected, actual);

}

}

1. **W.a. junit program to perform test with webdriver to login process of facebook.**

package Assignment.testing;

import org.junit.\*;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

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

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

public class FacebookLoginTestDemo {

WebDriver driver;

WebDriverWait wait;

@BeforeClass

public void beforeClass() throws InterruptedException {

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

driver = new ChromeDriver();

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

}

@Test

public void testFacebookLoginInvalid() {

driver.findElement(By.*id*("email")).sendKeys("invaliduser@example.com");

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

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

try {

WebElement error = wait.until(ExpectedConditions.*visibilityOfElementLocated*(

By.*xpath*("//div[contains(text(), \"The email\")] | //div[contains(text(), \"incorrect\")]")

));

Assert.*assertTrue*("Error message displayed", error.isDisplayed());

} catch (TimeoutException e) {

Assert.*fail*("Error message did not appear - possible UI/DOM change or timing issue.");

}

}

@AfterClass

public void afterClass() {

driver.quit();

}

}

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

**package** Assignment.testing;

**import** org.testng.annotations.Test;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.AfterClass;

**import** org.junit.\*;

**import** org.openqa.selenium.\*;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**public** **class** gmailloginDemo {

WebDriver driver;

WebDriverWait wait;

@Test

**public** **void** setUp() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

driver = **new** ChromeDriver();

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

}

@BeforeClass

**public** **void** beforeClass() {

WebElement emailField = wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*id*("identifierId")));

emailField.sendKeys("invalidemail@gmail.com");

driver.findElement(By.*id*("identifierNext")).click();

WebElement error = wait.until(ExpectedConditions.*visibilityOfElementLocated*(

By.*xpath*("//div[contains(text(),'Couldn’t find your Google Account')]")

));

Assert.*assertTrue*("Error message should be displayed for invalid login", error.isDisplayed());

}

@AfterClass

**public** **void** afterClass() {

driver.quit();

}

}

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

**package** Assignment.testing;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.\*;

**import** org.testng.Assert;

**import** org.testng.annotations.\*;

**import** java.util.concurrent.TimeoutException;

**public** **class** FacebookLoginParameterizedDemo {

WebDriver driver;

WebDriverWait wait;

@BeforeClass

**public** **void** beforeClass() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "path/to/chromedriver"); // Set correct path

driver = **new** ChromeDriver();

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

}

@DataProvider(name = "loginData")

**public** Object[][] loginData() {

**return** **new** Object[][] {

{ "invalid1@example.com", "wrongpass1" },

{ "invalid2@example.com", "wrongpass2" },

{ "invalid3@example.com", "wrongpass3" }

};

}

@Test(dataProvider = "loginData")

**public** **void** testFacebookLoginInvalid(String email, String password) **throws** TimeoutException {

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

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

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

WebElement error = wait.until(ExpectedConditions.*visibilityOfElementLocated*(

By.*xpath*("//div[contains(text(), \"email\")] | //div[contains(text(), \"incorrect\")]")

));

Assert.*assertTrue*(error.isDisplayed(), "Error message is not displayed.");

}

@AfterClass

**public** **void** afterClass() {

driver.quit();

}

}

1. **W.a. TestNG program to perform test with webdriver to login processof facebook.**

package Assignment.testing;

import org.testng.annotations.Test;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.AfterClass;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.\*;

import org.testng.Assert;

//import org.testng.annotations.\*;

public class facebookTestDemo {

WebDriver driver;

WebDriverWait wait;

@BeforeClass

public void beforeClass() throws InterruptedException {

System.setProperty("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

driver = new ChromeDriver();

driver.manage().window().maximize();

Thread.sleep(2000);

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

}

@Test

public void testInvalidFacebookLogin() {

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

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

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

emailField.sendKeys("invalid@example.com");

passwordField.sendKeys("invalidPassword123");

loginButton.click();

try {

WebElement error = wait.until(ExpectedConditions.visibilityOfElementLocated(

By.xpath("//div[contains(text(),'email')] | //div[contains(text(),'incorrect')]")

));

Assert.assertTrue(error.isDisplayed(), "Error message should be visible for invalid login.");

} catch (TimeoutException e) {

Assert.fail("Login error message not found. Facebook may have updated the UI.");

}

}

@AfterClass

public void afterClass() {

if (driver != null) {

driver.quit();

}

}

}

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

**package** Assignment.testing;

**import** org.testng.annotations.Test;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.AfterClass;

**import** org.openqa.selenium.By;

**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 java.time.Duration;

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

**public** **class** gmailloginDemo {

WebDriver driver;

WebDriverWait wait;

@BeforeClass

**public** **void** beforeClass() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

driver = **new** ChromeDriver();

driver.manage().window().maximize();

Thread.*sleep*(2000);

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

}

@Test

**public** **void** setUp() **throws** InterruptedException {

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

emailField.sendKeys("khushigodhani38@gmail.com");

driver.findElement(By.*id*("identifierNext")).click();

Thread.*sleep*(3000);

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

passwordField.sendKeys("khushi@#3110");

driver.findElement(By.*id*("passwordNext")).click();

Thread.*sleep*(5000);

String currentUrl = driver.getCurrentUrl();

*assertTrue*("Login may have failed", currentUrl.contains("myaccount") || currentUrl.contains("google.com"));

}

@AfterClass

**public** **void** afterClass() {

**if** (driver != **null**) {

driver.quit();

}

}

}

1. **W.a. TestNG program to use parameterized demo with multiple parameter of Facebook login with TestNG.**

**package** Assignment.testing;

**import** org.testng.annotations.Test;

**import** org.testng.annotations.BeforeClass;

**import** org.testng.annotations.AfterClass;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.testng.annotations.Parameters;

**public** **class** multipleFacebooklogin {

WebDriver driver;

@BeforeClass

**public** **void** beforeClass() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver","E:\\chrome driver\\chromedriver.exe");

driver = **new** ChromeDriver();

Thread.*sleep*(2000);

driver.manage().window().maximize();

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

}

@Test

@Parameters({"email", "password"})

**public** **void** loginToFacebook(String email, String password) {

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

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

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

emailField.sendKeys("khushi38@gmail.com");

passwordField.sendKeys("khushi3110");

loginButton.click();

System.***out***.println("Login attempted with: " + email);

}

@AfterClass

**public** **void** afterClass() {

driver.quit();

}

}

1. **W.a. TestNG program to create group with testing.xml file**

**package** Assignment.testing;

**import** org.testng.annotations.Test;

**public** **class** UserActionsTestDemo {

@Test(groups = "login")

**public** **void** loginTest() {

System.***out***.println("Executing Login Test");

}

@Test(groups = "logout")

**public** **void** logoutTest() {

System.***out***.println("Executing Logout Test");

}

@Test(groups = "signup")

**public** **void** signupTest() {

System.***out***.println("Executing Signup Test");

}

@Test(groups = {"login", "security"})

**public** **void** twoFactorTest() {

System.***out***.println("Executing Two-Factor Authentication Test");

}

@Test

**public** **void** generalTest() {

System.***out***.println("Executing General Test (no group)");

}

}

1. **w.a. TestNG program to create dataprovider.**

**package** Assignment.testing;

**import** org.testng.annotations.DataProvider;

**import** org.testng.annotations.Test;

**public** **class** LoginDataProviderTestDemo {

@Test(dataProvider = "loginData")

**public** **void** loginTest(String username, String password) {

System.***out***.println("Testing login with:");

System.***out***.println("Username: " + username + ", Password: " + password);

}

@DataProvider(name = "loginData")

**public** Object[][] getData() {

**return** **new** Object[][] {

{"user1@example.com", "pass123"},

{"user2@example.com", "test456"},

{"admin@example.com", "admin@2024"}

};

}

}