1. Capturing the alert message using getText().

@Test

public void T01\_AlertTest()

{

driver. navigate().to("http://www.w3schools.com/js/tryit.asp?filename=tryjs\_alert");

driver.switchTo().frame("iframeResult");

WebElement alertButton = driver.findElement(By.cssSelector("html>body>button"));

alertButton.click();

String expectedAlertMessage = "I am an alert box!";

String actualAlertMessage = driver.switchTo().alert().getText();

Assertions.assertEquals(expectedAlertMessage, actualAlertMessage);

driver.switchTo().alert().accept();

}

2. Prompt Alert with Text Box to enter the text.

let text;

let favDrink = prompt ("What's your favorite cocktail drink?");

switch(favDrink) {

case "Coca-Cola":

text = "Excellent choice! Coca-Cola is good for your soul.";

break;

case "Pepsi":

text = "Pepsi is my favorite too!";

break;

case "Sprite":

text = "Really? Are you sure the Sprite is your favorite?";

break;

default:

text = "I have never heard of that one!";

}

3. Confirmation Alert with Ok and Cancel buttons.

let text;

if (confirm ("Press a button!") == true)

{

text = "You pressed OK!";

} else {

text = "You cancelled!";

}

4. Clicking OK button of the alert using accept().

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;

public class AlertAccept{

public static void main (String[] args)

{

System.setProperty("webdriver.chrome.driver", "C:\Users\ghs6kor\Desktop\Java\chromedriver.exe");

WebDriver driver = new ChromeDriver();

String url ="https://www.tutorialspoint.com/selenium/selenium\_automation\_practice.htm";

driver.get(url);

driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);

// identify element

driver. findElement(By.xpath("//button[@name='submit']")).click();

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

al.accept();

driver.quit();

}

}

5. Clicking Cancel button of the alert using dismiss ().

("#complexConfirm"). confirm ({

title: “Delete confirmation",

text: “This is very dangerous; you shouldn't do it! Are you sure?",

confirm: function(button) {

alert ("You just confirmed.");

},

cancel: function(button) {

alert ("You aborted the operation.");

},

confirmButton: "Yes I am",

cancelButton: "No"

});

6. Handle single window using driver.getWindowHandle().

@TestInstance (TestInstance.Lifecycle.PER\_CLASS)

@TestMethodOrder (MethodOrderer.MethodName.class)

public class Windows

{

private WebDriver driver;

public void setupTest()

{

WebDriverManager.chromedriver(). setup ();

driver = new ChromeDriver();

}

@Test

@SneakyThrows

public void T02\_ManageWindows ()

{

driver. navigate().to("http://www.w3schools.com/tags/tryit.asp?filename=tryhtml\_link\_target");

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

Dimension windowSize = driver.manage().window().getSize();

System.out.println("\*\*\*Full Size Values for Current Window\*\*\*\n");

System.out.println("Screen Width: " + windowSize.getWidth() + "\n");

System.out.println("Screen Height: " + windowSize.getHeight() + "\n");

Thread.sleep(500);

driver.manage().window().setSize(new Dimension(windowSize.getWidth() / 4, windowSize.getHeight() / 4));

Dimension quarterWindowSize = driver.manage().window().getSize();

System.out.println("\*\*\* 1/4 Size Values for Current Window\*\*\*\n");

System.out.println("Screen Width: " + quarterWindowSize.getWidth() + "\n");

System.out.println("Screen Height: " + quarterWindowSize.getHeight() + "\n");

Thread.sleep(500);

Point windowPosition = driver.manage().window().getPosition();

System.out.println("\*\*\* Window Position for Current Window\*\*\*\n");

System.out.println("Window X position: " + windowPosition.getX() + "\n");

System.out.println("Window Y position: " + windowPosition.getY() + "\n");

Thread.sleep(500);

Point newWindowPosition = windowPosition.moveBy(200, 200);

driver.manage().window().setPosition(newWindowPosition);

System.out.println("\*\*\* Window Position for Current Window\*\*\*\n");

System.out.println("Window X position: " + driver.manage().window().getPosition().getX() + "\n");

System.out.println("Window Y position: " + driver.manage().window().getPosition().getY() + "\n");

Thread.sleep(500);

}

public void tearDown()

{

driver.quit();

}

}

7. Handle multiple windows using driver.getWindowHandles().

@TestInstance (TestInstance.Lifecycle.PER\_CLASS)

@TestMethodOrder (MethodOrderer.MethodName.class)

public class Windows

{

private WebDriver driver;

public void setupTest()

{

WebDriverManager.chromedriver(). setup ();

driver = new ChromeDriver();

}

public void tearDown()

{

driver.quit();

}

public void T01\_SwitchToWindows ()

{

driver. navigate().to("http://www.w3schools.com/tags/tryit.asp?filename=tryhtml\_link\_target");

driver. Manage (). window().maximize();

System.out.println("Current Window Handle: " + driver.getWindowHandle() + "\n");

driver.switchTo().frame("iframeResult");

WebElement visitLink = driver.findElement(By.linkText("Visit W3Schools.com!"));

visitLink.click();

Set<String> windowHandles = driver.getWindowHandles();

List<String> windowHandlesList = new ArrayList<>(windowHandles); //Set to List Conversion

System.out.println("Total window number: " + windowHandlesList.size() + "\n");

driver.switchTo().window(windowHandlesList.get(1));

System.out.println("Current Window Handle: " + driver.getWindowHandle() + "\n");

WebElement logo = driver.findElement(By.cssSelector(".fa.fa-logo"));

Assertions.assertTrue(logo.isDisplayed());

driver.switchTo().window(windowHandlesList.get(0));

System.out.println("Current Window Handle: " + driver.getWindowHandle() + "\n");

WebElement seeResultButton = driver. findElement(By.cssSelector("button[onclick\*='submitTryit(1)'"));

Assertions.assertTrue(seeResultButton.getText(). contains ("Run ❯"));

}

}

8. Switch to window using driver.switchTo().window().

String winHandleBefore = driver.getWindowHandle();

for(String winHandle : driver.getWindowHandles())

{

driver.switchTo().window(winHandle);

}

driver.close();

driver.switchTo().window(winHandleBefore);

9. Switch to frame using driver.switchTo().frame().

public class SwitchToframe

{

public static void main (String[] args) throws NoSuchElementException

{

WebDriver driver = new FirefoxDriver();

driver.get("http://demo.guru99.com/test/guru99home/");

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

int size = driver.findElements(By.tagName("iframe")).size();

for (int i=0; i<=size; i++)

{

driver.switchTo().frame(i);

int total=driver.findElements(By.xpath("html/body/a/img")).size();

System.out.println(total);

driver.switchTo().defaultContent(); //switching back from the iframe

}

driver.switchTo().frame(0); //Switching to the frame

System.out.println("We are switched to the iframe");

driver.findElement(By.xpath("html/body/a/img")).click();

System.out.println("We are done");

}

}

10. Switch to popup using driver.switchTo.alert().

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class DemoWebAlert

{

WebDriver driver;

public DemoWebAlert()

{

}

public void setUp()

{

driver=new FirefoxDriver();

driver.get("file:///F:/Work/Selenium/Testing-Presentation/DemoWebPopup.htm");

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

}

public void testWebAlert() throws InterruptedException

{

driver. find Element (By.xpath("//button[contains(text(),'Try it')]")).click();

Thread.sleep(5000);

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

alert.accept();

driver. find Element (By.xpath("//button[contains(text(),'Try it')]")).click();

Thread. Sleep (5000);

driver. switchTo(). alert (). dismiss ();

driver. findElement(By.xpath("//button[contains(text(),'Try it')]")).click();

Thread. Sleep (5000);

System.out.println(driver. switchTo(). alert().getText());

driver. switchTo(). alert (). accept ();

}

public void tearDown() {

driver. Quit ();

}

}