Practical No. 6. Handling different types of alerts in Selenium

Date: _____

Aim:

To learn how to handle various types of alerts in Selenium.

Theory:

An Alert in Selenium is a small message box which appears on screen to give the user some information or notification. It notifies the user with some specific information or error, asks for permission to perform certain tasks and it also provides warning messages as well. Here are few alerts in Selenium:

Simple Alert

The simple alert class in Selenium displays some information or warning on the screen.

Prompt Alert.

This Prompt Alert asks some input from the user and Selenium webdriver can enter the text using sendkeys(" input…. ").

Confirmation Alert.

This confirmation alert asks permission to do some type of operation.

Apart from switching between windows and frames, you may have to handle various modal dialogs in a web application. For this, WebDriver provides an API to handle alert dialogs. The API for that is as follows:

Alert alert()

The preceding method will switch to the currently active modal dialog on the web page. This returns an Alert instance where appropriate actions can be taken on that dialog. If there is no dialog currently present, and you invoke this API, it throws back a **NoAlertPresentException.**

The Alert interface contains a number of APIs to execute different actions. The following list discusses them one after the other:

- **void accept():**

This is equivalent to the OK button action on the dialog. The corresponding OK button actions are invoked when the accept() action is taken on a dialog.

- **void dismiss():**

This is equivalent to clicking on the CANCEL action button.

- **java.lang.String getText():**

This will return the text that appears on the dialog. This can be used if you want to evaluate the text on the modal dialog.

- **void sendKeys(java.lang.String keysToSend):**

This will allow the developer to type in some text into the alert if the alert has some provision for it.

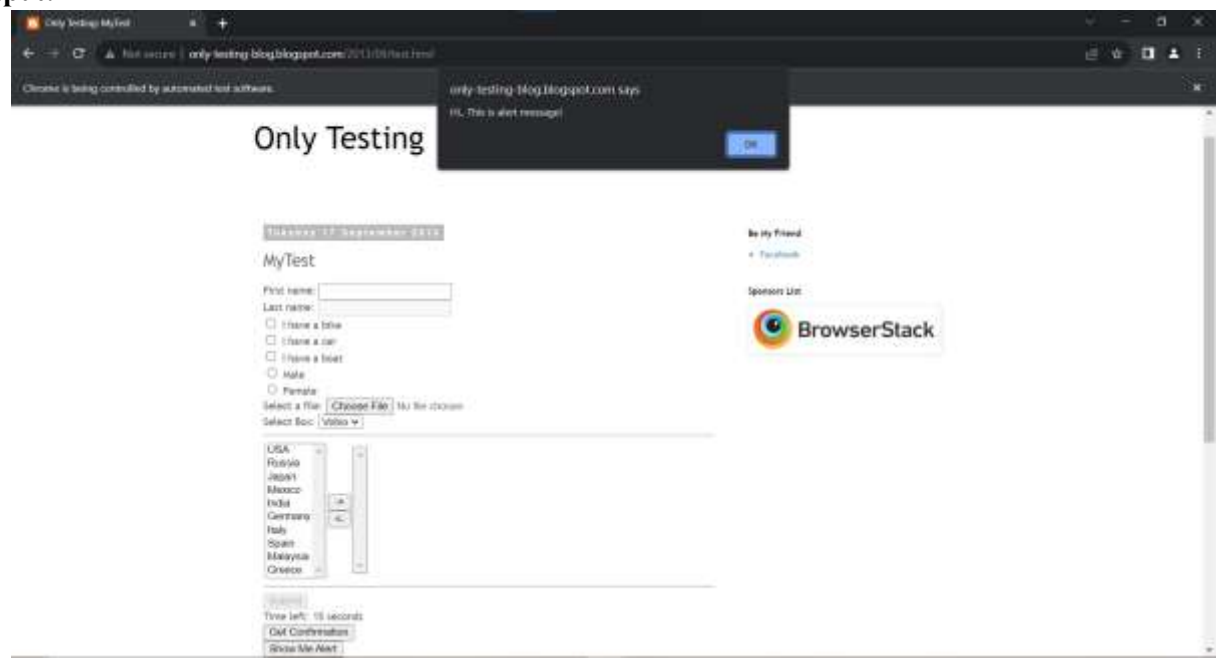
Implementation

1. **Write a selenium script to handle alert on http://only-estingblog.blogspot.com/2013/09/test.html**

Program:

```
package webDriver;
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.ChromeDriver;
public class Question_01 {
	public static void main(String[] args) throws InterruptedException {
		System.setProperty("webdriver.chrome.driver",  "E:\\selenium_setup\\chromedriver.exe");
		WebDriver driver = new ChromeDriver();
		driver.get("http://only-testing-blog.blogspot.com/2013/09/test.html");
		WebElement button = driver.findElement(By.cssSelector("input[value='Show Me Alert']"));
		Thread.sleep(3000);
		button.click();
		Alert alert = driver.switchTo().alert();
		System.out.println(alert.getText());
		Thread.sleep(2000);
		alert.accept();    }          }
```

Output:



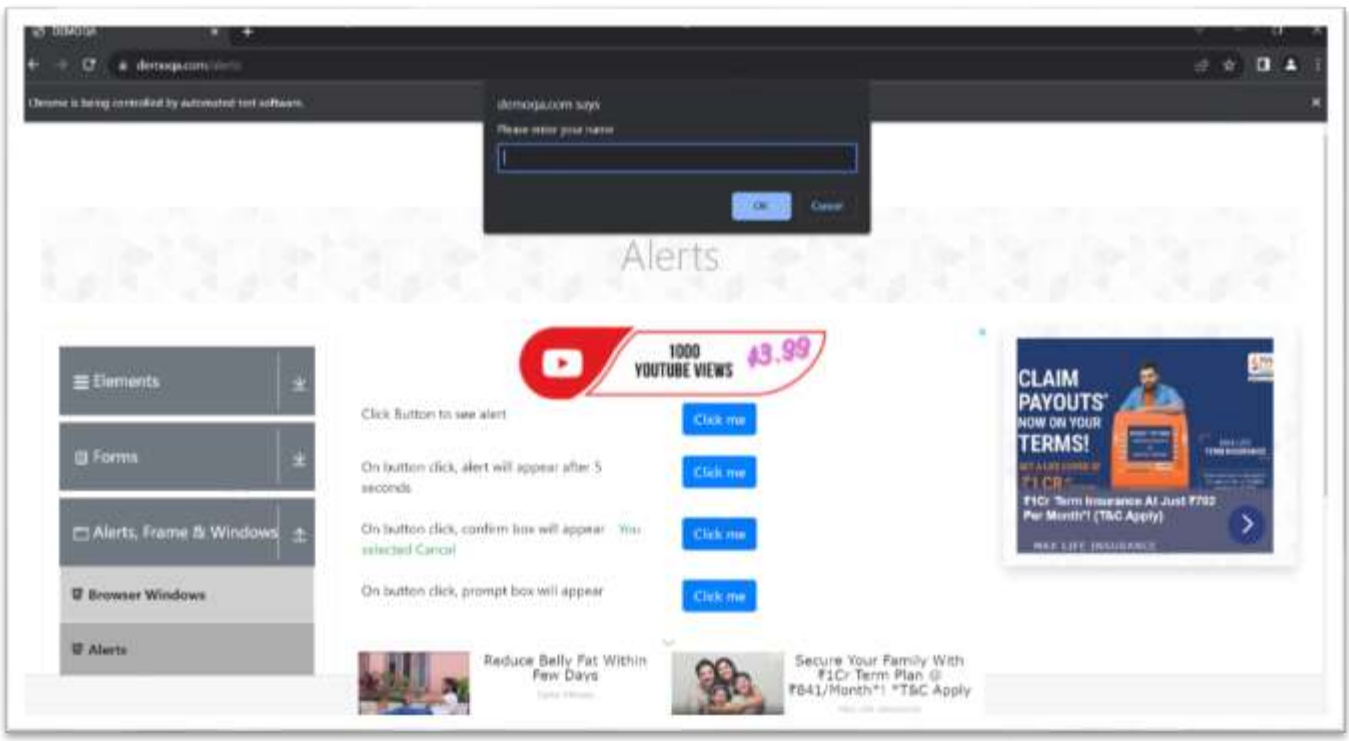
2. Write a selenium script to handle alerts on https://demoqa.com/alerts

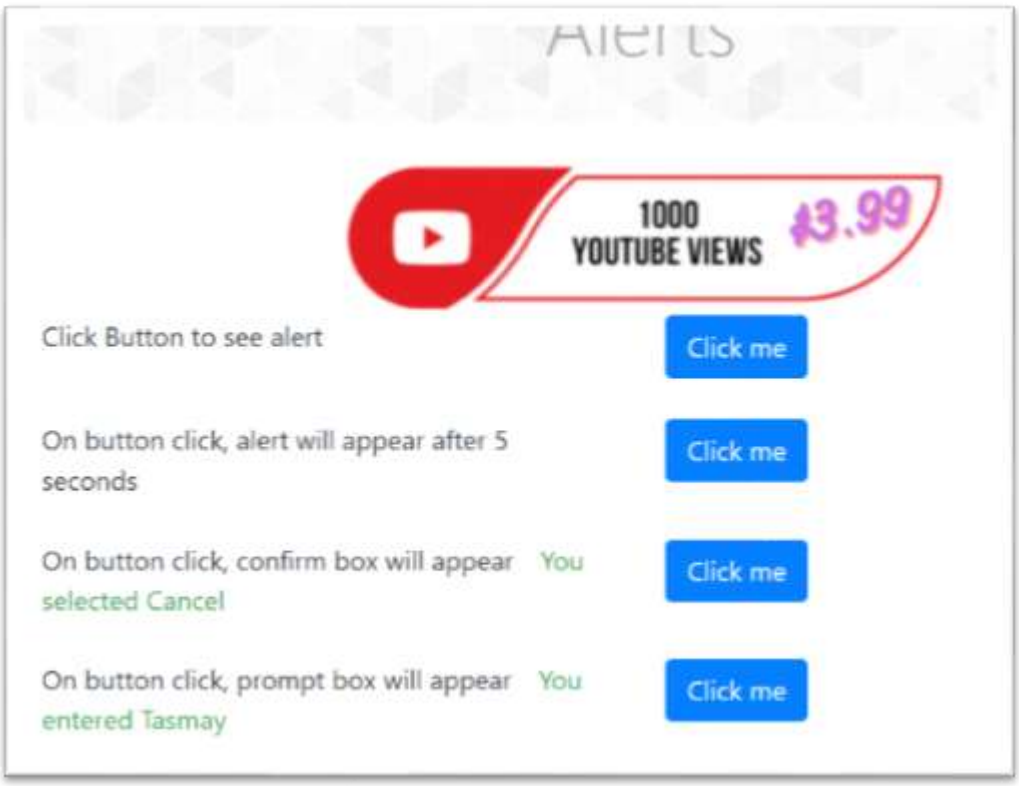
Program:

```
package seleniumScriptsA1;
import java.util.concurrent.TimeUnit;
```

```
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.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
public class ExplicitWaitDemo {
        public static void main(String[] args) {
                System.setProperty("webdriver.gecko.driver", "C:\\Selenium_Drivers\\chromedriver.exe");
                //creating instance of web driver
                WebDriver driver=new ChromeDriver();
                //navigate to web page
                driver.get("https://demoqa.com/alerts");
                WebElement alert_btn=driver.findElement(By.id("timerAlertButton"));
                alert_btn.click();
                //WebDriverWait wait = new WebDriverWait(driver, 10);
                //Alert simpleAlert = wait.until(ExpectedConditions.alertIsPresent());
                //switching to alert
                driver.switchTo().alert();
                //simpleAlert.accept();
                System.out.println("Alert Accepted");
                driver.close();                 }          }
```

Output:





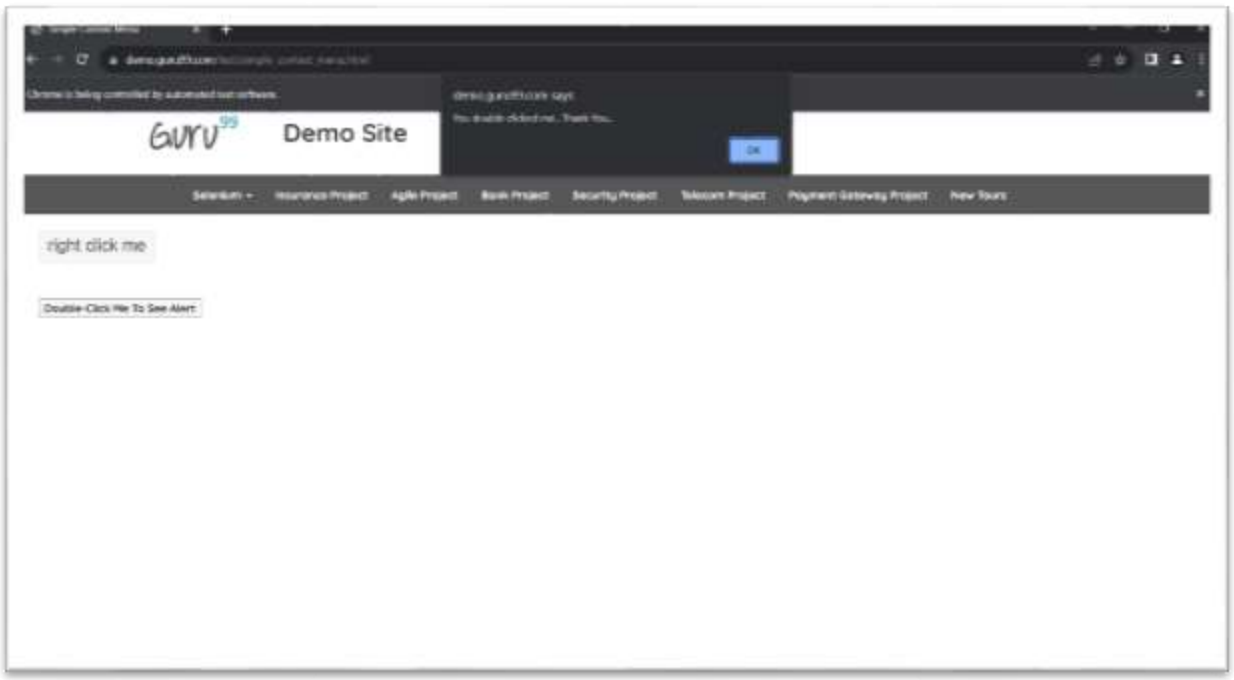
3. Write a selenium script to handle alert on http://demo.guru99.com/test/simple_context_menu.html

Program:

```
package webDriver;
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.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
public class Question_03 {
	public static void main(String[] args) throws InterruptedException {
		System.setProperty("webdriver.chrome.driver",  "E:\\selenium_setup\\chromedriver.exe");
		WebDriver driver = new ChromeDriver();
		driver.get("https://demo.guru99.com/test/simple_context_menu.html");
		WebElement btn = driver.findElement(By.xpath("//*[@id=\"authentication\"]/button"));
		Actions builder = new Actions(driver);
		builder.doubleClick(btn);
		builder.perform();
```

```
Alert simpleAlert = driver.switchTo().alert();
Thread.sleep(2000);
simpleAlert.accept();     }          }
```

Output:



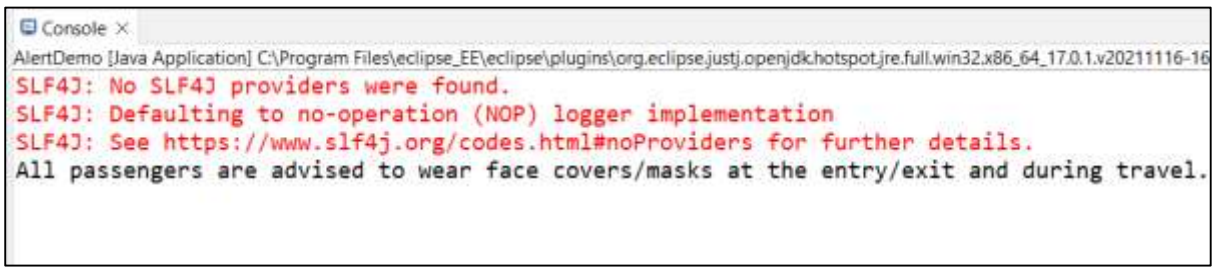
4. Open "train_reservation.html" page and handle the alerts on that page.

Program:

```
package seleniumScriptsA1;
import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;

public class AlertDemo {

        public static void main(String[] args) throws InterruptedException {
                System.setProperty("webdriver.gecko.driver", "C:\\Selenium_Drivers\\geckodriver.exe");

                //creating instance of web driver
                WebDriver driver=new FirefoxDriver();

                //navigate to web page
        driver.get("file:///C:/Users/parth/OneDrive/Desktop/SQA_HTML%20FILES/train_reservation.html");
```

```
WebElement train_link = driver.findElement(By.linkText("Trains"));
train_link.click();
//switching to alert window
Alert simpleAlert = driver.switchTo().alert();
Thread.sleep(4000);
//print or retrieve the alert text
System.out.println(simpleAlert.getText());
Thread.sleep(4000);
simpleAlert.accept();
Thread.sleep(4000);
WebElement confirm_dtls = driver.findElement(By.cssSelector("input[value='Confirm
Details']"));
confirm_dtls.click();
Alert prompt_Alert = driver.switchTo().alert();
prompt_Alert.sendKeys("3");
prompt_Alert.accept();
Thread.sleep(5000);      }          }
```

Output:



Conclusion: Learnt to handle all types of alerts in Selenium.