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:
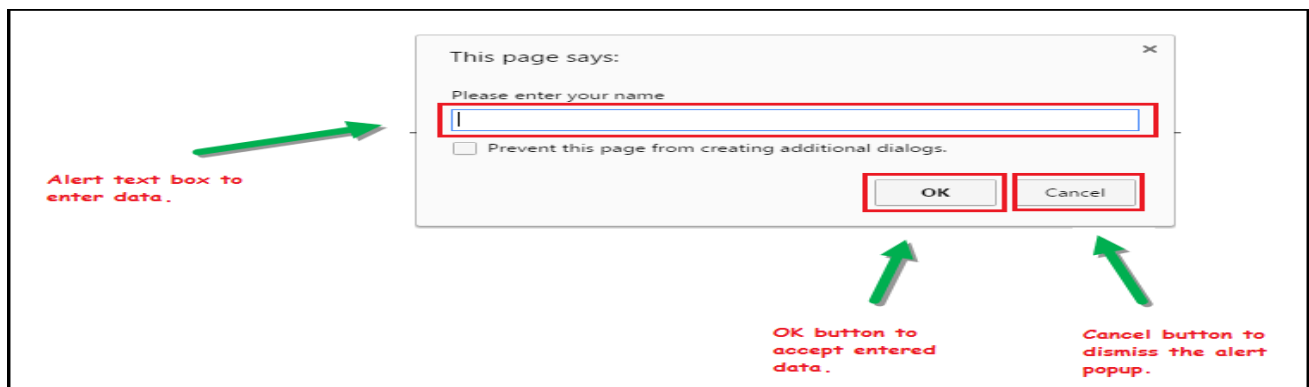
Simple Alert

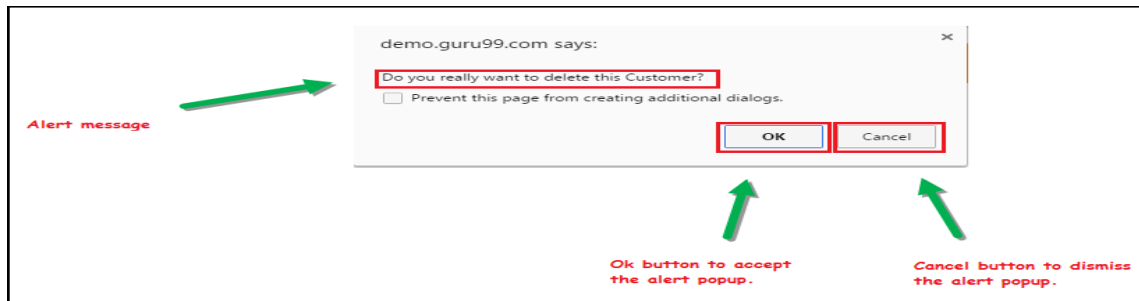The simple alert class in Selenium displays some information or warning on the screen.
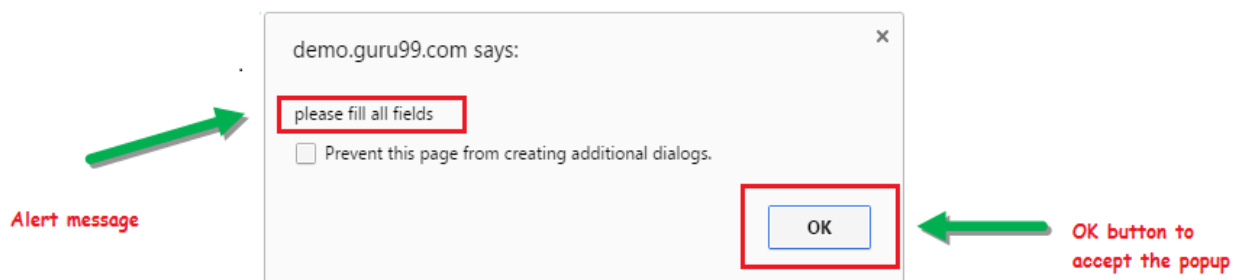
Prompt Alert.

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-testing-blog.blogspot.com/2013/09/test.html

Code	
| | ```
package pkg;

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 Alert_Demonstration {

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

		// Web driver for FireFox

		WebDriver driver = new FirefoxDriver();

		// open web page

		driver.get("http://only-testing-blog.blogspot.com/2013/09/test.html");

		// Click the button to trigger the alert

	WebElement btnAlert1 = driver.findElement(By.cssSelector("input[value = 'Show Me Alert']"));


		// Click on Alert 1

		btnAlert1.click();
``` |

```
// Switch to the alert

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


// Wait

Thread.sleep(5000);


// Get and print the alert text

System.out.println("Alert text: " + alert.getText());


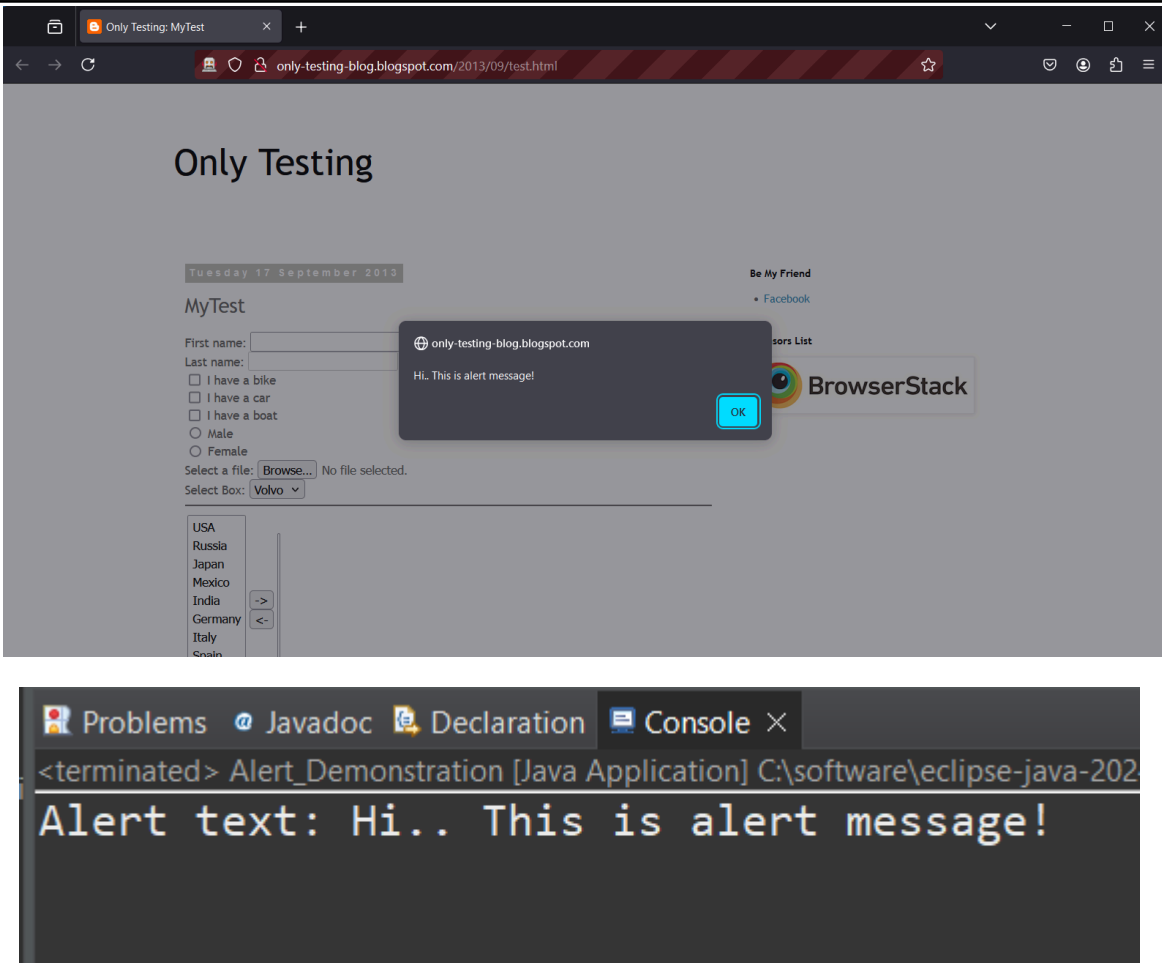// Accept the alert (click OK)

alert.accept();


// Wait

Thread.sleep(5000);


// Close the browser

driver.quit();

}

}
```

Output	

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

Code	package pkg;
	
	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 HandleAlertsDemo {
	
	        public static void main(String[] args) throws InterruptedException {
	
	                // TODO Auto-generated method stub

```java
System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe")
;

        // Web driver for FireFox
        WebDriver driver = new FirefoxDriver();

        driver.get("https://demoqa.com/alerts");

        WebElement btn = driver.findElement(By.id("alertButton")); btn.click();
        Thread.sleep(5000);

        Alert simple_alert = driver.switchTo().alert();
        System.out.println("the alert message is "+ simple_alert.getText());
        simple_alert.accept();
        Thread.sleep(5000);

        WebElement btn2 = driver.findElement(By.id("timerAlertButton"));
        btn2.click();
        Thread.sleep(5000);

        Alert wait_alert = driver.switchTo().alert();
        System.out.println("the wait alert message is "+ wait_alert.getText());
        Thread.sleep(5000);
        wait_alert.accept();

        WebElement btn3 = driver.findElement(By.id("confirmButton"));
        btn3.click();
        Thread.sleep(5000);

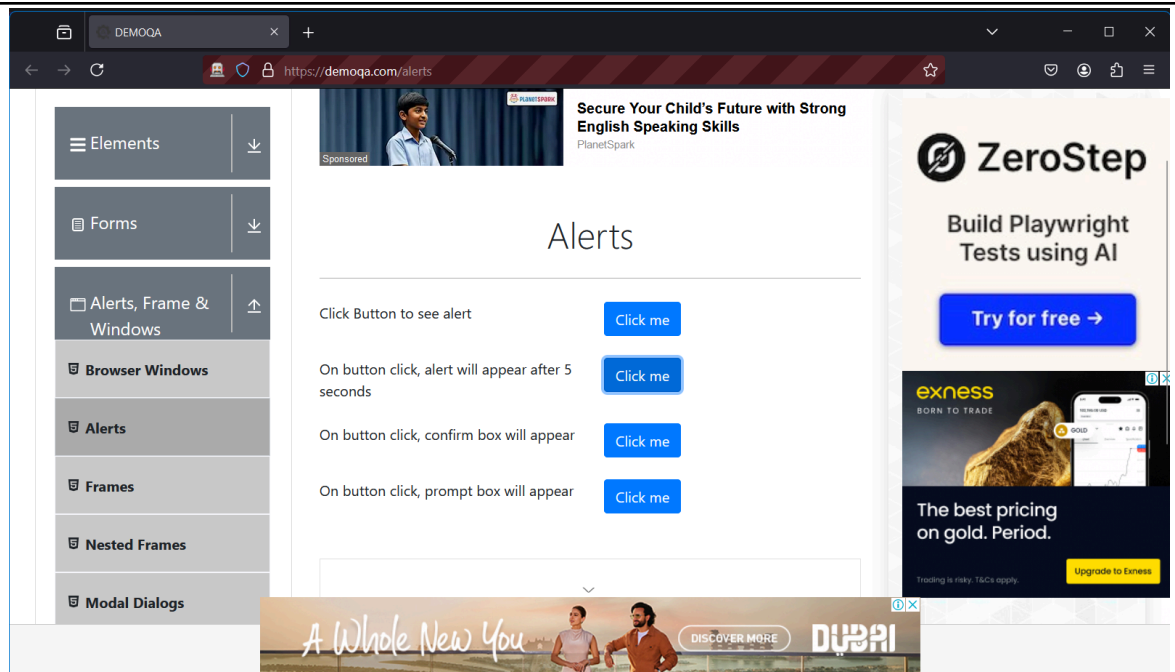        Alert confirm_alert = driver.switchTo().alert();
```

	System.out.println("the　wait　alert　message　is　"+ confirm_alert.getText());
	
	　　　　Thread.sleep(5000);
	
	　　　　confirm_alert.accept();
	
	　　　　WebElement promtBtn = driver.findElement(By.id("promtButton"));
	
	　　　　promtBtn.click();
	
	　　　　Alert promptAlert = driver.switchTo().alert();
	
	　　　　promptAlert.sendKeys("Onkar");
	
	　　　　Thread.sleep(5000);
	
	　　　　promptAlert.accept();
	
	　　　　Thread.sleep(5000);
	
	　　　}
	　}
	}

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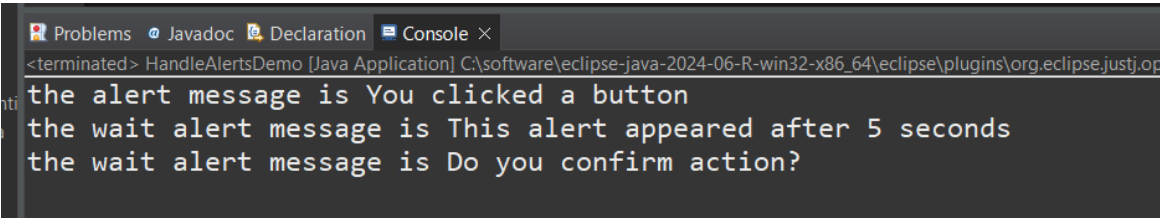
3. Write a selenium script to handle alert on http://demo.guru99.com/test/simple_context_menu.html

Code	package pkg;
	import org.openqa.selenium.By;
	import org.openqa.selenium.WebDriver;

```java
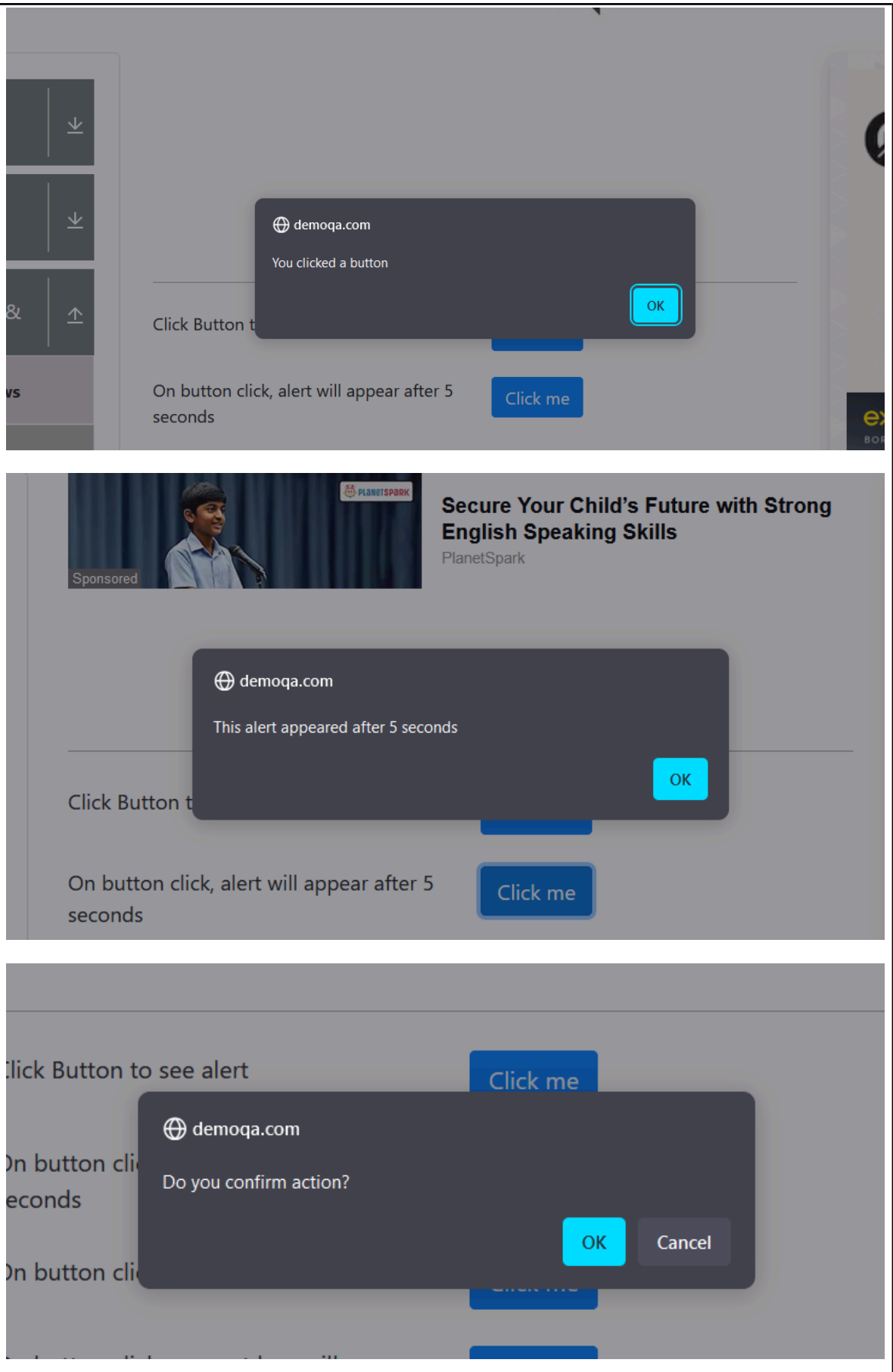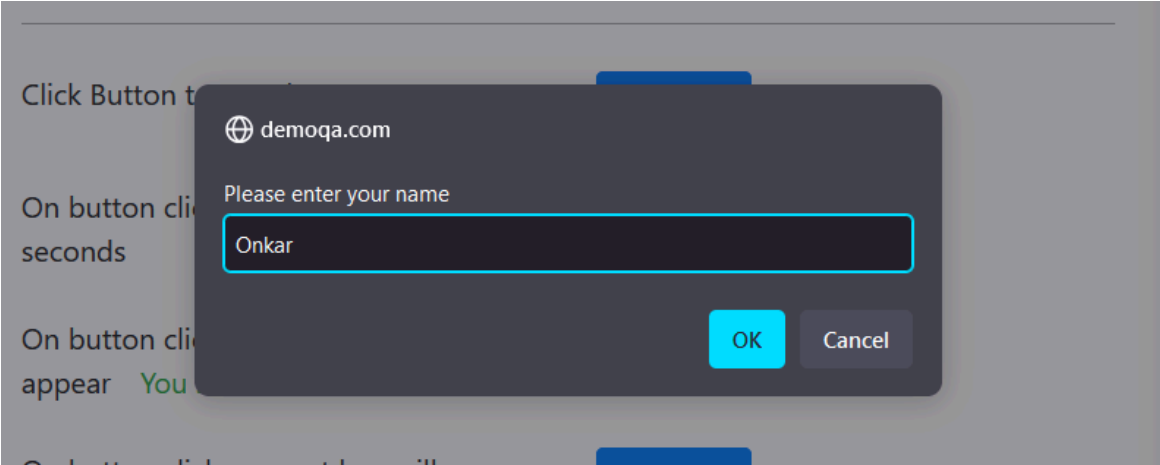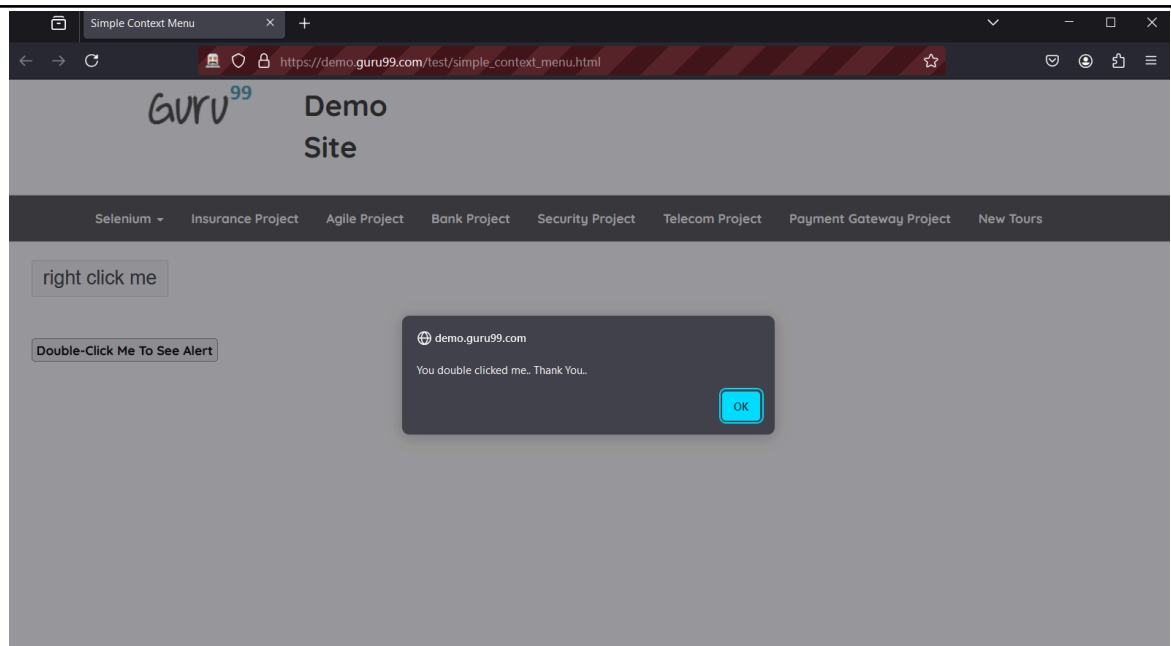import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.interactions.Actions;

public class AlertsSimpleContextDisplay {

        public static void main(String[] args) {

                // TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe")
;

                // Web driver for FireFox

                WebDriver driver = new FirefoxDriver();

                //locate web page

        driver.get("https://demo.guru99.com/test/simple_context_menu.html");

                //double click me too see alert

                WebElement   doubleClick    =

driver.findElement(By.xpath("//button[@ondblclick='myFunction()']"));

                Actions dClick = new Actions(driver);

                dClick.doubleClick(doubleClick).perform();

        }

}
```

Output	

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

Code	package pkg;

	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 trainReservationAlert {
	
	public static void main(String[] args) throws InterruptedException {
	// TODO Auto-generated method stub
	
	System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe");
	
	// Web driver for FireFox
	WebDriver driver = new FirefoxDriver();
	
	//locate web page
	driver.get("");
	
	//locate trains hyperlink
	WebElement trains_link = driver.findElement(By.linkText("Trains"));
	
	//click on trains link
	trains_link.click();
	
	//Alert window opens

```java
//switch from main window to alert window
Alert simpleAlert = driver.switchTo().alert(); // simpleAlert



//print alert text
System.out.println("The        Text     inside  alert   window      is: "+simpleAlert.getText());


//perform action on clicking on simple alert
Thread.sleep(2000);
simpleAlert.accept();


Thread.sleep(5000);



//locate confirm details button
WebElement                   confirmBtn                          =
driver.findElement(By.cssSelector("input[value='Confirm Details']"));
confirmBtn.click();



//Alert window opens
//switch from main window to alert window
Alert promt_Alert = driver.switchTo().alert();
//enter input
promt_Alert.sendKeys("3");
Thread.sleep(2000);
promt_Alert.accept();
Thread.sleep(5000);


WebElement   book_Ticket                                           =
```

```java
driver.findElement(By.cssSelector("input[value='Book Tickets']"));

        book_Ticket.click();

        //Alert window opens

        //switch from main window to alert window

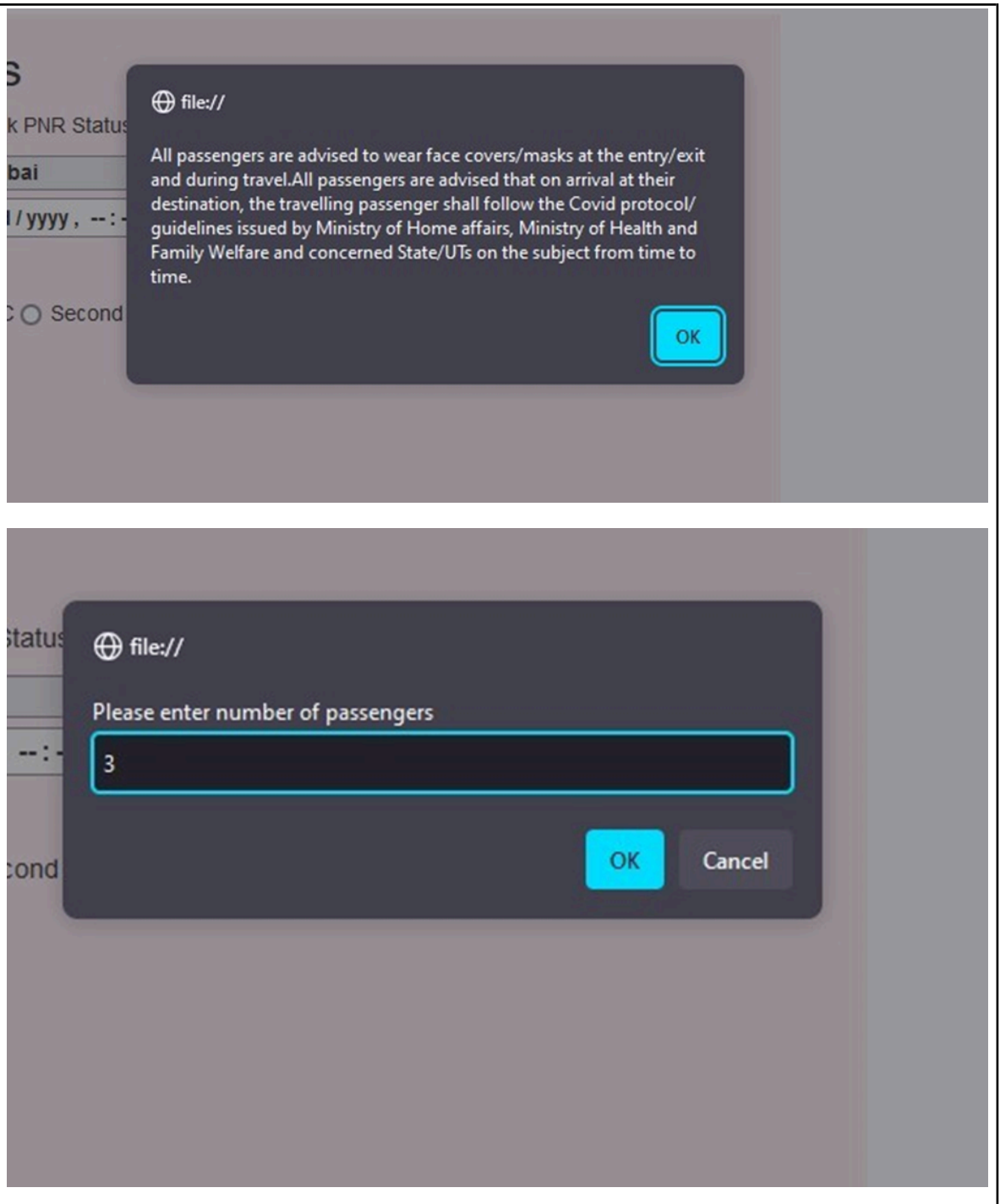        Alert Confimation_alert = driver.switchTo().alert();


        //text retrieve from confirmation Text

        System.out.println("The        Text        inside        window:
"+Confimation_alert.getText());

        Thread.sleep(2000);

        Confimation_alert.accept();


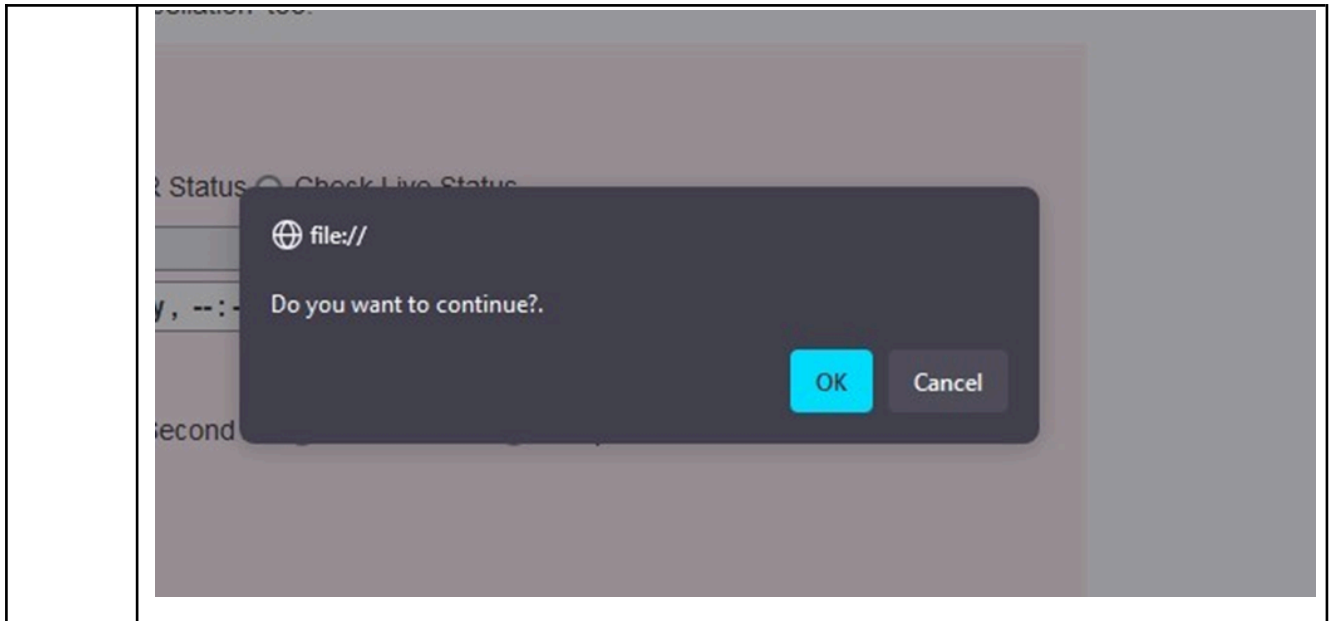        Thread.sleep(5000);

        WebElement              book_ticket_cancel                  =
driver.findElement(By.cssSelector("input[value='Book Tickets']"));

        book_ticket_cancel.click();


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

        Thread.sleep(2000);

        decline_alert.dismiss();


    }
}
```

Output	
	S
	k PNR Status
	bai
	l / yyyy , --:-
	⊕ file://
	All passengers are advised to wear face covers/masks at the entry/exit and during travel.All passengers are advised that on arrival at their destination, the travelling passenger shall follow the Covid protocol/ guidelines issued by Ministry of Home affairs, Ministry of Health and Family Welfare and concerned State/UTs on the subject from time to time.
	C ◯ Second OK
	Status
	--:-
	⊕ file://
	Please enter number of passengers
	3
	cond OK Cancel

Conclusion: Learnt to handle all types of alerts in Selenium

After performing this Practical/lab, students are expected to answer following questions

Q.1 What are different types of alert()?

Q.2 Which method is used to cancel or close alert window?