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

Date: _____

Aim:

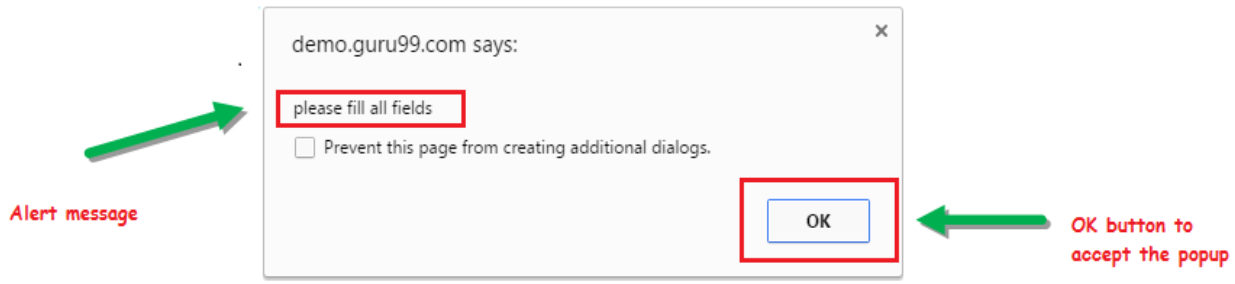
To learn how to handle various types of alerts in Selenium.

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.

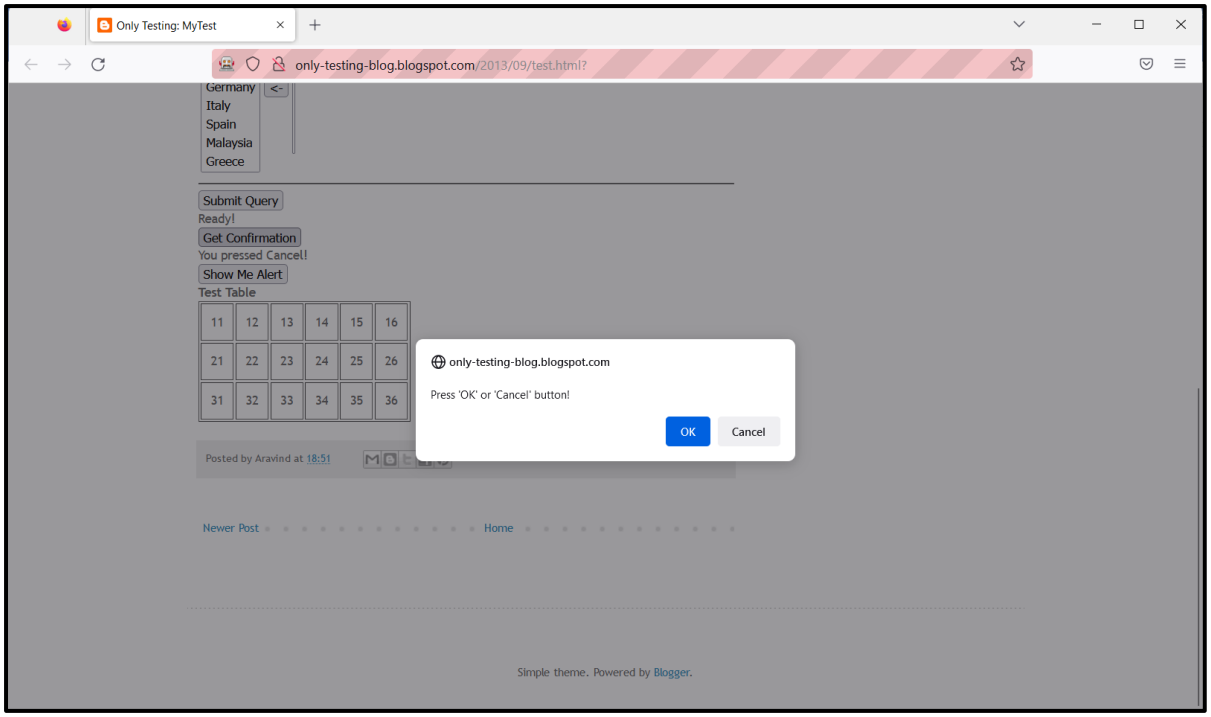
Implementation

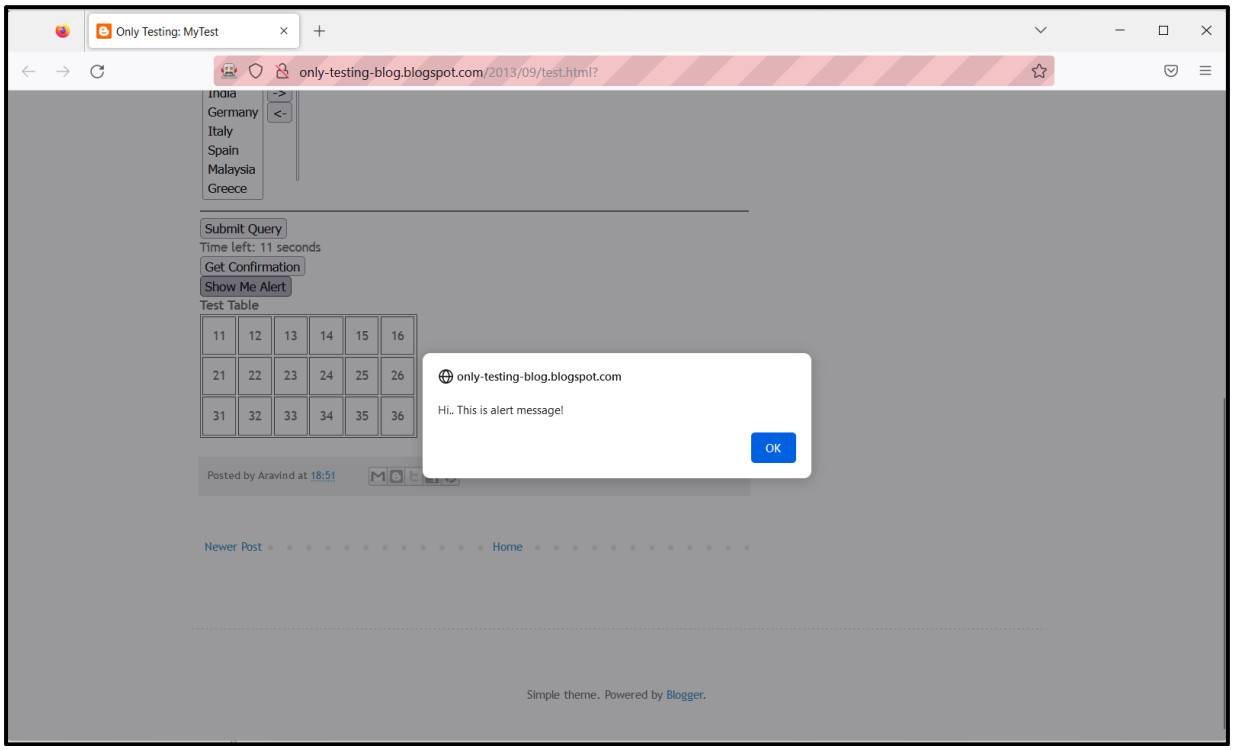
1. Write a selenium script to handle alert on http://only-testing-blog.blogspot.com/2013/09/test.html

Code:-

```
package practical6;

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 q1 {
	public static void main(String args[]) throws InterruptedException {
		System.setProperty("webdriver.gecko.driver", "D:\\Finolex\\SEM 3\\Selenium-
Setup\\geckodriver.exe");
		WebDriver driver=new FirefoxDriver(); //create driver instance

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

		WebElement
confirmBtn=driver.findElement(By.cssSelector("button[onclick='myFunction()']"));
		confirmBtn.click();
		//confirmation alert
		Thread.sleep(2000);
		Alert confirmAlert=driver.switchTo().alert();
		confirmAlert.dismiss();

		Thread.sleep(3000);
		WebElement
simpleAlertBtn=driver.findElement(By.cssSelector("input[value='Show Me Alert']"));
		simpleAlertBtn.click();

		//simple alert
		Thread.sleep(1000);
		Alert simpleAlert=driver.switchTo().alert();
		simpleAlert.accept();
	}
}
```

Output:-





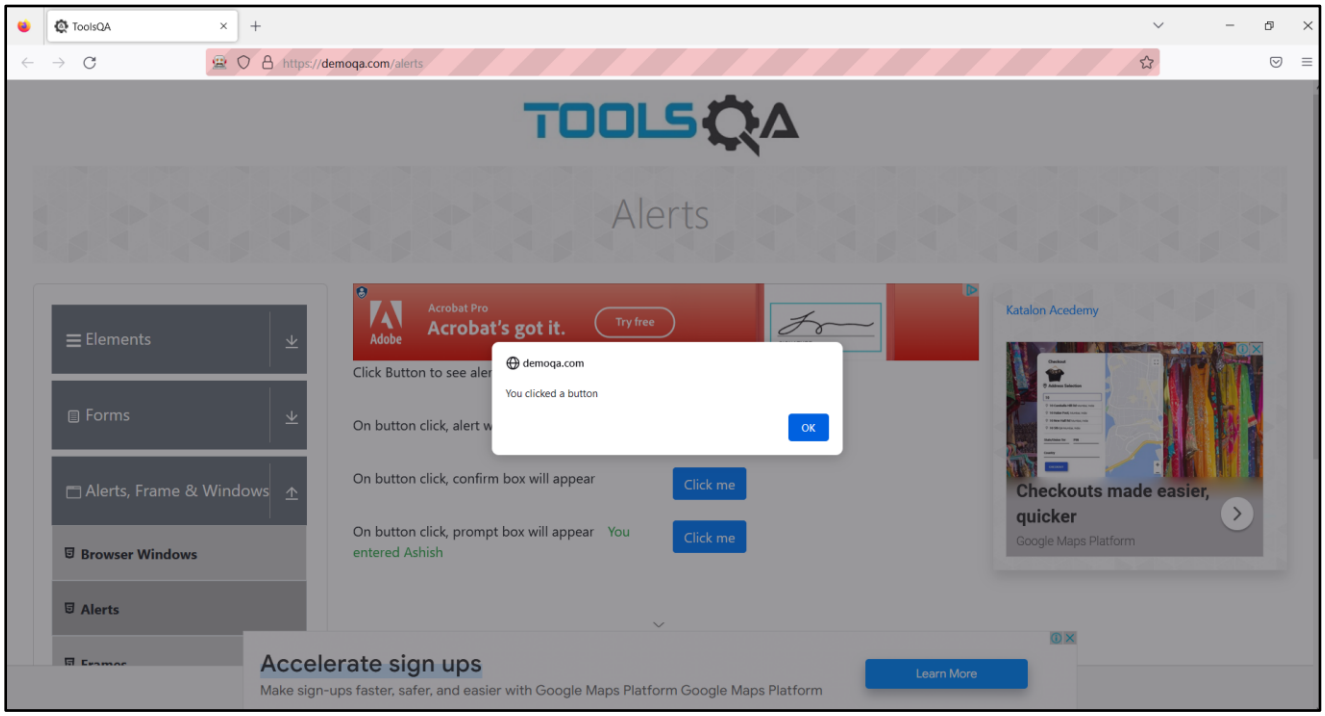
2. Write a selenium script to handle alerts on https://demoqa.com/alerts

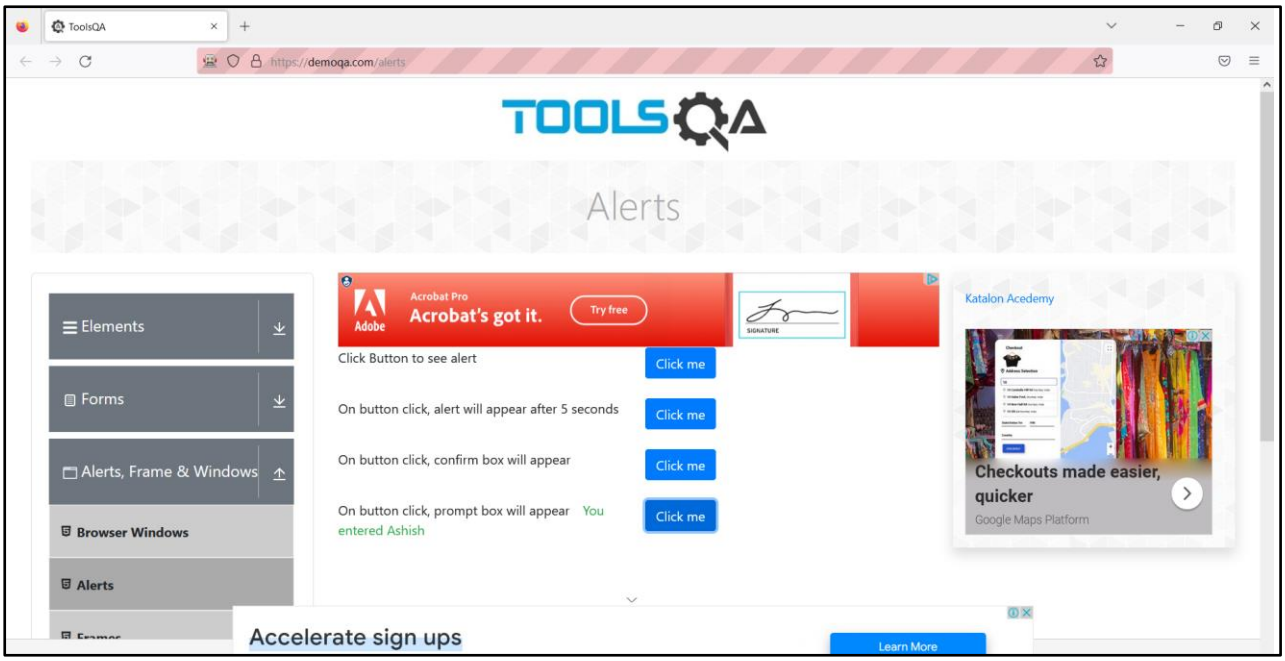
Code:-

```
package practical6;
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 q2 {

	public static void main(String[] args) throws InterruptedException {
		System.setProperty("webdriver.gecko.driver", "D:\\Finolex\\SEM 3\\Selenium-Setup\\geckodriver.exe");
		WebDriver driver=new FirefoxDriver(); //create driver instance

		driver.get("https://demoqa.com/alerts");
		WebElement simpleAlertBtn=driver.findElement(By.id("alertButton"));
		simpleAlertBtn.click();
		Thread.sleep(2000);
		Alert simpleAlert=driver.switchTo().alert();
		simpleAlert.accept();
		Thread.sleep(2000);
		WebElement propmtAlertBtn=driver.findElement(By.id("promtButton"));
		propmtAlertBtn.click();
		Alert promptAlert=driver.switchTo().alert();
		promptAlert.sendKeys("Akshay");
		Thread.sleep(1000);
		promptAlert.accept();
	}}
```

Output:



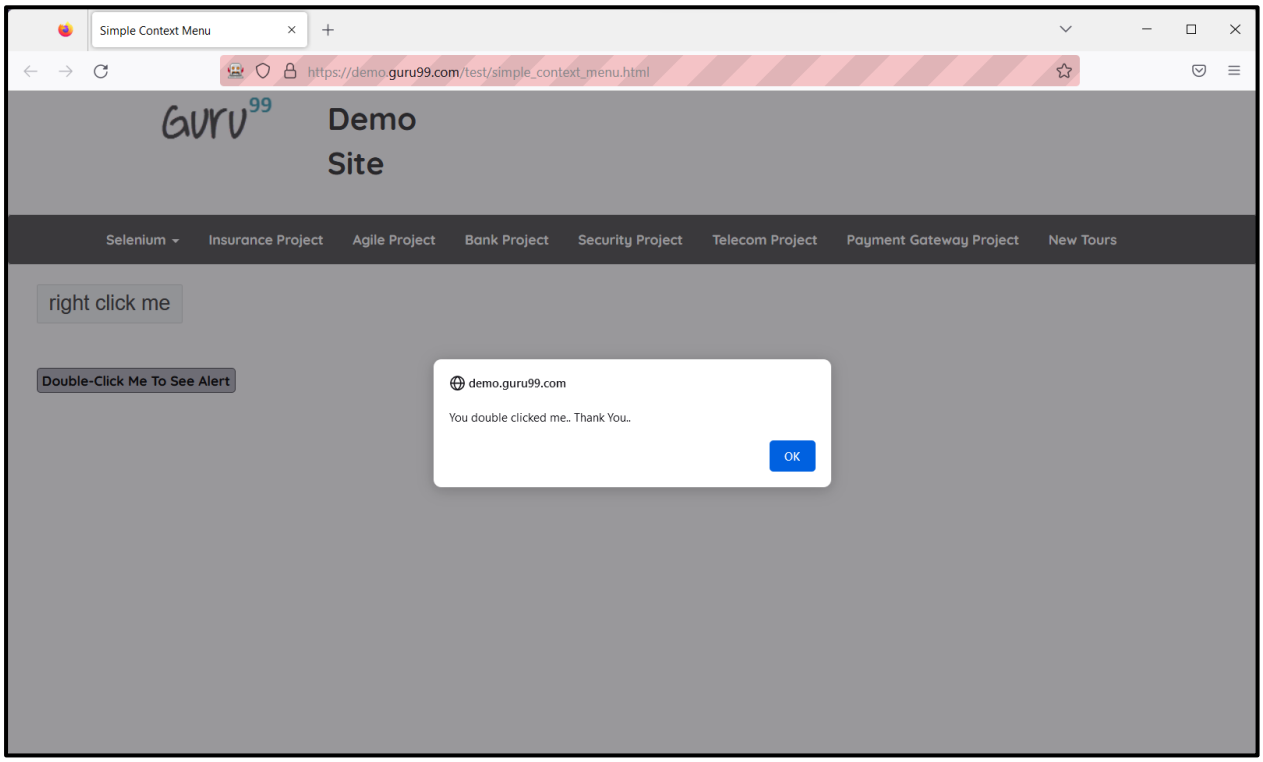


3. Write a selenium script to handle alert on http://demo.guru99.com/test/simple_context_menu.html

Code:-

```
package selenium;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
public class LocateByTagName {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		System.setProperty("webdriver.gecko.driver", "D:\\Finolex\\SEM 3\\Selenium-Setup\\geckodriver.exe");
		WebDriver driver=new FirefoxDriver(); //create driver instance
		driver.get("https://demo.guru99.com/test/facebook.html");
		List<WebElement> list=driver.findElements(By.tagName("input"));//locate multiple elements having input type
		list.get(1).sendKeys("abcd@gmail.com");
		list.get(2).sendKeys("abcd@gmail.com");
	}}
```

Output:-



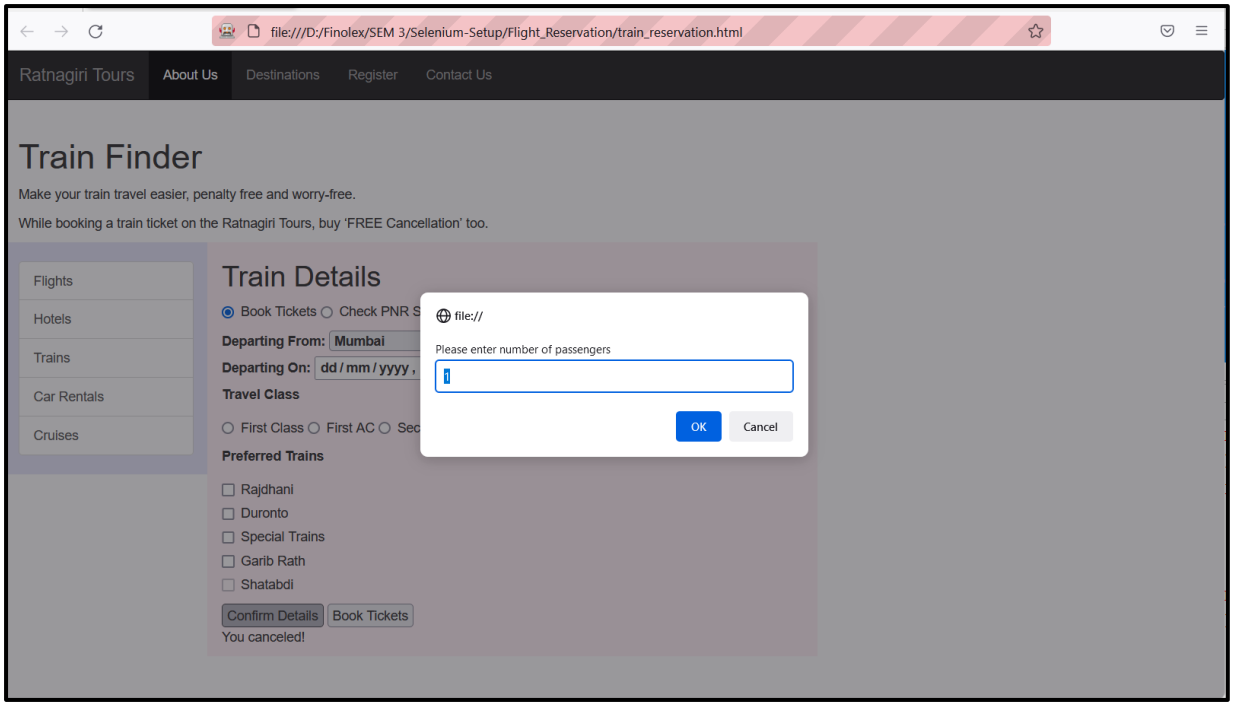
4. Open “train_reservation.html” page and handle the alerts on that page.

Code:-

```
package selenium;
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 ActionOnAlert {
        public static void main(String[] args) throws InterruptedException {
                System.setProperty("webdriver.gecko.driver", "D:\\Finolex\\SEM 3\\Selenium-Setup\\geckodriver.exe");
                WebDriver driver=new FirefoxDriver(); //create driver instance
                driver.get("file:///D:/Finolex/SEM%203/Selenium-Setup/Flight_Reservation/train_reservation.html");

                WebElement trains=driver.findElement(By.linkText("Trains"));
                trains.click();
                //*************Simple alert*************//
```

```
                Alert simpleAlert=driver.switchTo().alert();
                System.out.println(simpleAlert.getText());
                Thread.sleep(2000);
                simpleAlert.accept();

                //************prompt alert***********//
                Thread.sleep(5000);
                WebElement
confirmButton=driver.findElement(By.cssSelector("input[type='button']"));
                confirmButton.click();
                Alert promtAlert=driver.switchTo().alert();
                Thread.sleep(2000);
                promtAlert.sendKeys("3");
                Thread.sleep(1000);
                promtAlert.accept();
                //************Confirmation Alert***********//
                Thread.sleep(3000);
                WebElement
bookTicket=driver.findElement(By.cssSelector("input[type='submit']"));
                bookTicket.click();
                Alert confirmAlert=driver.switchTo().alert();
                Thread.sleep(1000);
                System.out.println("Confirm msg : "+confirmAlert.getText());
                confirmAlert.dismiss();
        }}
```

Output:-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First AC
Preferred Trains
Rajdhani
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Special Trains
Garib Rath
Shatabdi
Confirm Details
Book Tickets
You canceled!
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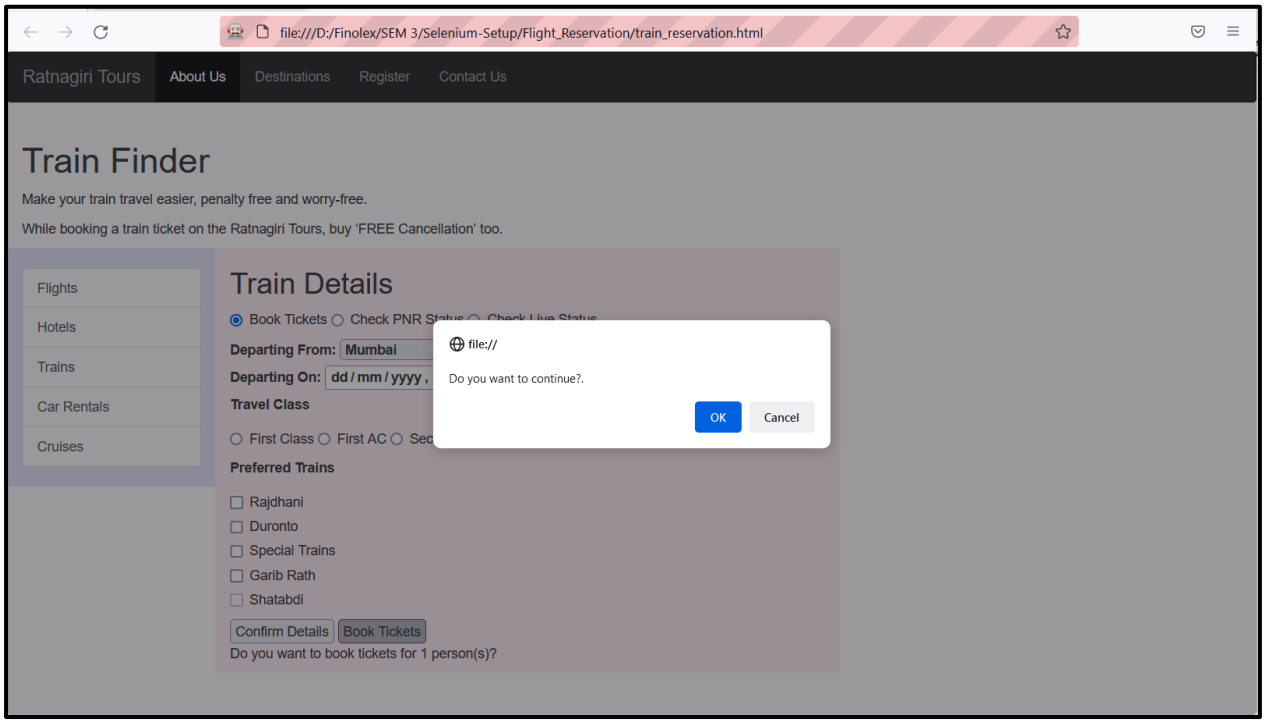
Please enter number of passengers
1
OK
Cancel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First AC
Preferred Trains
Rajdhani
Duronto
Special Trains
Garib Rath
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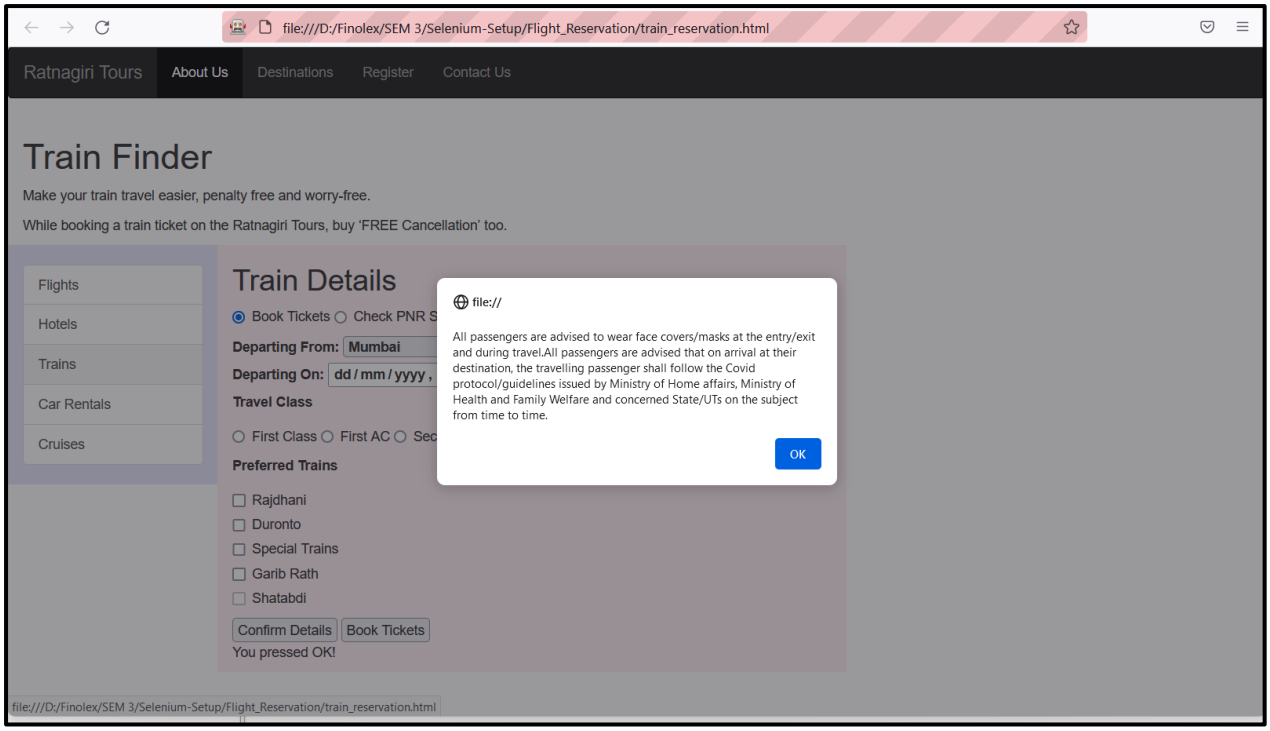
Confirm Details
Book Tickets
Do you want to book tickets for 1 person(s)?
file://
Do you want to continue?.
OK
Cancel



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?