How to handle alerts:

Alert: Alert is a small popup box which is displayed on the top of a web application.

Alert do: When alert is displayed, it literally blocks the screen. That means it does not allow the user  
 to perform any other actions other than handling this alert.

So these alerts are basically used for providing some kind of information to the user and sometimes it also takes the information from the user.

Types:  
1. Simple alert.  
2. Confirmation alert.  
3. Prompt alert.

Simple alert:  
  
**package** selenium;

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

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

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

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

**public** **class** AlertsDemo {

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

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

driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

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

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

//Thread.sleep(1000);

sample.accept();

}

}

Confirmation alert:

There are two operation in confirmation alert.  
1.Accept.  
2.Dismiss.

To accept:

**package** selenium;

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

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

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

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

**public** **class** AlertsDemo {

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

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

driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

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

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

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

System.***out***.println(confirm.getText());

Thread.*sleep*(2000);

confirm.accept();

}

}

To dismiss:

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

driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

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

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

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

System.***out***.println(confirm.getText());

Thread.*sleep*(2000);

confirm.dismiss();

Thread.*sleep*(2000);

driver.findElement(By.*id*("output")).getText();

Prompt alert:

User has to enter the text in the box and perform the actions like accept or dismiss.

**package** selenium;

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

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

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

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

**public** **class** AlertsDemo {

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

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

driver.get("https://www.hyrtutorials.com/p/alertsdemo.html");

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

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

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

prompt.sendKeys("Reddy");

Thread.*sleep*(2000);

prompt.accept();

}

}

How to handle multiple windows:

To handle windows, there are two ways.

1.getWindowHandle().  
 It will return the current focussed window handle.  
2.getWindowHandles().  
 It will return both two window handles.

Set not allows duplicate, it allows only unique values.

List allows duplicate values.

To store all the unique values we need a set.

**package** selenium;

**import** java.util.Set;

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

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

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

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

**public** **class** MWindowsDemo {

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

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

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

driver.manage().timeouts().~~implicitlyWait~~(60, TimeUnit.***SECONDS***);

driver.get("https://www.hyrtutorials.com/p/window-handles-practice.html");

String ParentHandle = driver.getWindowHandle();//before entering the new window, I am storing the current window handle

System.***out***.println("Parent window---" + ParentHandle);

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

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

**for** (String handle : Handles) {

System.***out***.println(handle);

**if**(!handle.equals(ParentHandle)) {

driver.switchTo().window(handle);

driver.findElement(By.*id*("firstName")).sendKeys("Parthasaradhi");

Thread.*sleep*(5000);

driver.close();

}

}

driver.switchTo().window(ParentHandle);

driver.findElement(By.*id*("name")).sendKeys("Reddy");

Thread.*sleep*(2000);

}

}

For tabs, we need to change the locator path.