**Working with External Elements**

**1.Handling External pop-ups.**

package practicesolution;

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 InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

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

driver.get("https://mail.rediff.com/cgi-bin/login.cgi");

// click on the sign in button and alert should be displayed

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

Thread.sleep(1500);

// We will not make driver object to switch from main window of app to alert window

// once we switch to alert we will use Alert class object to perform actions on the alert

// we can perform 3 actions on the alert : getText, send keys, press ok or cancel button

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

String alertText= a.getText();

System.out.println(alertText);

a.accept(); // click on yes or OK

// if you want to press on cancel or NO button a.dismiss();

// After this use driver object to enter username and password on the text box:

driver.findElement(By.id("login1")).sendKeys("admin");

driver.findElement(By.id("password")).sendKeys("admin");

}

}

**2.Handling new tabs and new windows.**

package practicesolution;

import java.awt.AWTException;

import java.awt.Robot;

import java.awt.event.KeyEvent;

import java.util.ArrayList;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class HandleTabs {

public static void main(String[] args) throws AWTException, InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

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

driver.get("https://www.amazon.com/");

// Using robot class we can do virtual keyboard events

Robot r = new Robot();

r.keyPress(KeyEvent.VK\_CONTROL); // press ctl key on virtual keybord

r.keyPress(KeyEvent.VK\_T); // press letter T

// Now release the key

r.keyRelease(KeyEvent.VK\_CONTROL); // release ctl key on virtual keybord

r.keyRelease(KeyEvent.VK\_T); // release letter T

r.keyPress(KeyEvent.VK\_CONTROL); // press ctl key on virtual keybord

r.keyPress(KeyEvent.VK\_T);

r.keyRelease(KeyEvent.VK\_CONTROL); // release ctl key on virtual keybord

r.keyRelease(KeyEvent.VK\_T); // release letter T

// how many tabs are open

ArrayList<String> tabs = new ArrayList<String>(driver.getWindowHandles());

System.out.println(tabs);

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

driver.get("https://www.simplilearn.com/");

Thread.sleep(1000);

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

driver.get("https://github.com/");

Thread.sleep(1000);

driver.quit();

}

}