

1.5 Working with External Elements.

ExternalElementsHandlingDemo.java

```
package com.ecommerce.test;

import java.util.Set;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class ExternalElementsHandlingDemo {

    public static void main(String[] args) {
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.flipkart.com/");

        // Handling External Pop-ups
        handleExternalPopUps(driver);

        // Handling New Tabs and Windows
        handleNewTabsAndWindows(driver);

        driver.quit();
    }

    static void handleExternalPopUps(WebDriver driver) {
        // Click on the trigger element to open the pop-up
        driver.findElement(By.id("triggerElement")).click();
    }
}
```

```
// Get a set of window handles
Set<String> windowHandles = driver.getWindowHandles();

// Store the handle of the main window
String mainWindowHandle = driver.getWindowHandle();

// Iterate through the window handles
for (String handle : windowHandles) {
    // Switch to the pop-up window
    driver.switchTo().window(handle);

    // Perform actions on the elements within the pop-up
    driver.findElement(By.id("popUpElement")).sendKeys("Text");

    // Switch back to the main window
    driver.switchTo().window(mainWindowHandle);
}

}

static void handleNewTabsAndWindows(WebDriver driver) {
    // Click on the trigger element to open the new tab or window
    driver.findElement(By.id("triggerElement")).click();

    // Get a set of window handles
    Set<String> windowHandles = driver.getWindowHandles();

    // Store the handle of the main window
```

```
String mainWindowHandle = driver.getWindowHandle();

// Iterate through the window handles
for (String handle : windowHandles) {
    // Switch to the new tab or window
    driver.switchTo().window(handle);

    // Perform actions on the elements within the new tab or window
    driver.findElement(By.id("newTabElement")).sendKeys("Text");

    // Close the new tab or window if needed
    driver.close();

    // Switch back to the main window
    driver.switchTo().window(mainWindowHandle);
}
}
}
```