**Working with External Elements.**

**Program:**

**Examp4.java:**

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

**import** org.openqa.selenium.Keys;

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

**import** org.openqa.selenium.WebElement;

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

**import** org.openqa.selenium.interactions.Actions;

**import** org.openqa.selenium.JavascriptExecutor;

**import** java.util.Set;

**public** **class** Examp4 {

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

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

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

// Open the main page

driver.get("http://www.google.com/");

System.***out***.println("Main page is open");

Thread.*sleep*(3000);

// Open a link in a new tab

WebElement linkInNewTab = driver.findElement(By.*linkText*("Gmail"));

Actions actions = **new** Actions(driver);

actions.keyDown(Keys.***CONTROL***).click(linkInNewTab).keyUp(Keys.***CONTROL***).perform();

System.***out***.println("Opened Gmail in a new tab");

Thread.*sleep*(3000);

// Open a page in a new window

String script = "window.open('http://www.facebook.com/', '\_blank');";

((JavascriptExecutor) driver).executeScript(script);

System.***out***.println("Opened Facebook in a new window");

Thread.*sleep*(3000);

// Switch to the new tab

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

String mainTabHandle = driver.getWindowHandle();

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

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

driver.switchTo().window(handle);

**break**;

}

}

// Close the current tab (Facebook page in new window)

driver.close();

System.***out***.println("Closed the Facebook window");

// Switch back to the main tab (Google page)

driver.switchTo().window(mainTabHandle);

System.***out***.println("Switched back to the main tab (Google page)");

driver.quit(); // Close the browser

}

}

**Output:**



