EduBridge

A project Report on

SELENIUMEASY WEBSITE USING AUTOMATION TOOL

SELENIUM

WEBDRIVER WITH JAVA.

By

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Introduction:

This Project aims to do overall testing like functional testing, GUI testing on SeleniumEasy website to check quality of application using selenium webdriver. It helps to improve quality of website and saves time for manually doing this testing.

Software Requirements:

Operating System: Windows 10
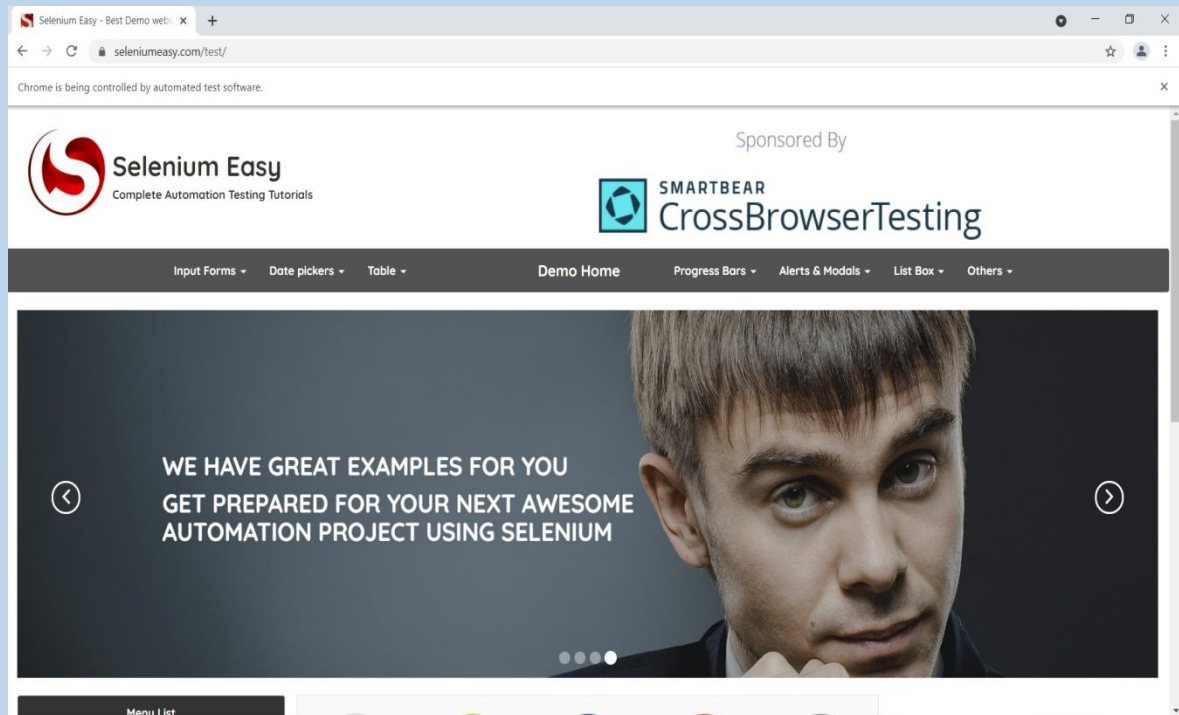
Browser: Latest version of Google Chrome

Platform: Eclipse IDE

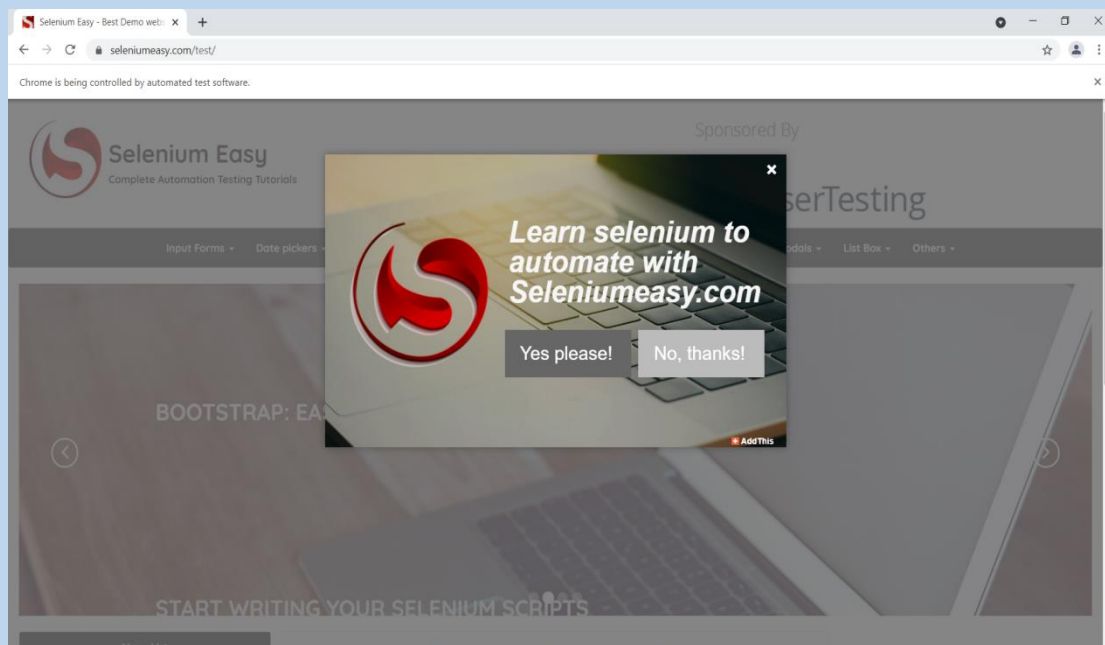Automation Tool and Language: Selenium WebDriver, Java

Files: JDK, Selenium Jar files, Common IO file

TC01: Launch the browser and open SeleniumEasy website.

```
System.setProperty("webdriver.chrome.driver","C:\\Users\\USER\\Desktop\\Se
lenium\\chromedriver.exe");
WebDriver w=new ChromeDriver();
w.get("https://www.seleniumeasy.com/test/");
w.manage().window().maximize();
```
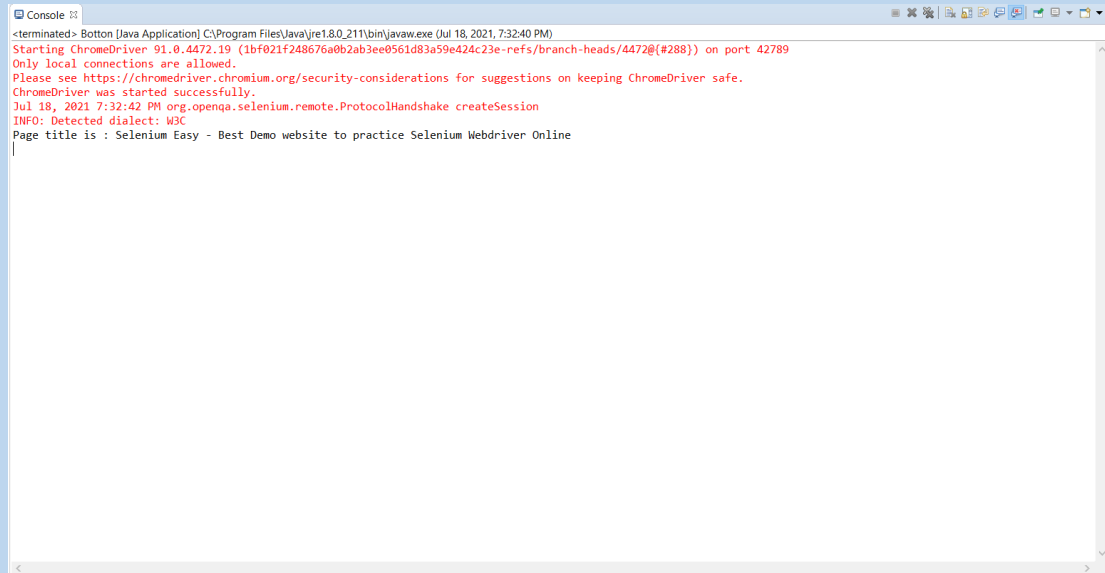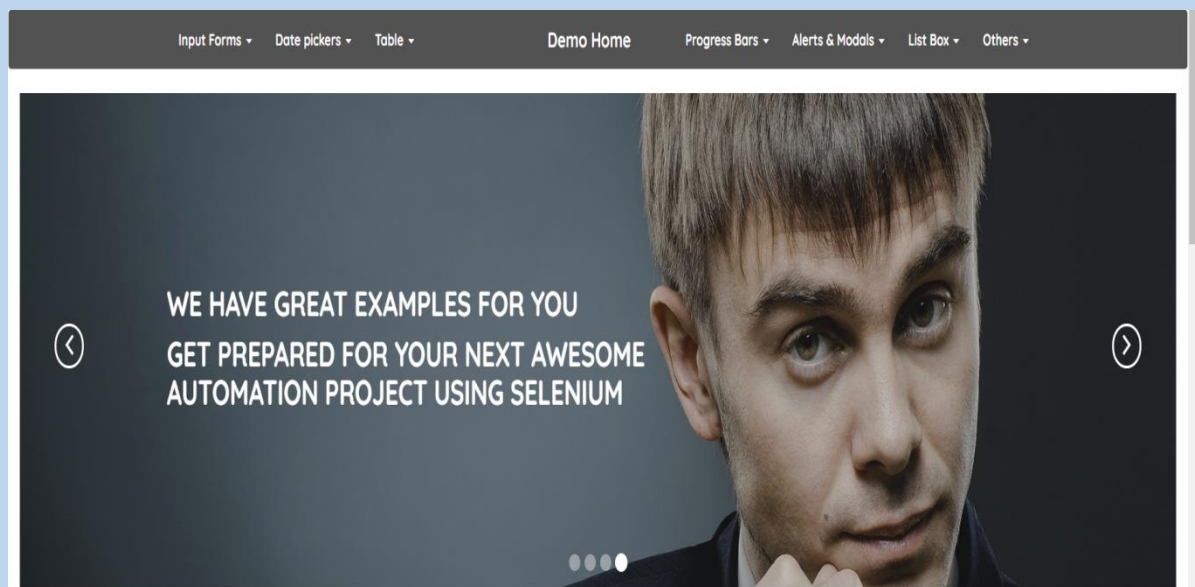

TC02: Close the PopUp Window.

TC03: To get Page Title.

```
System.out.println("Page title is : " + w.getTitle());
```

Console ⊠
<terminated> Botton [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Jul 18, 2021, 7:32:40 PM)
Starting ChromeDriver 91.0.4472.19 (1bf021f248676a0b2ab3ee0561d83a59e424c23e-refs/branch-heads/4472@{#288}) on port 42789
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 18, 2021 7:32:42 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
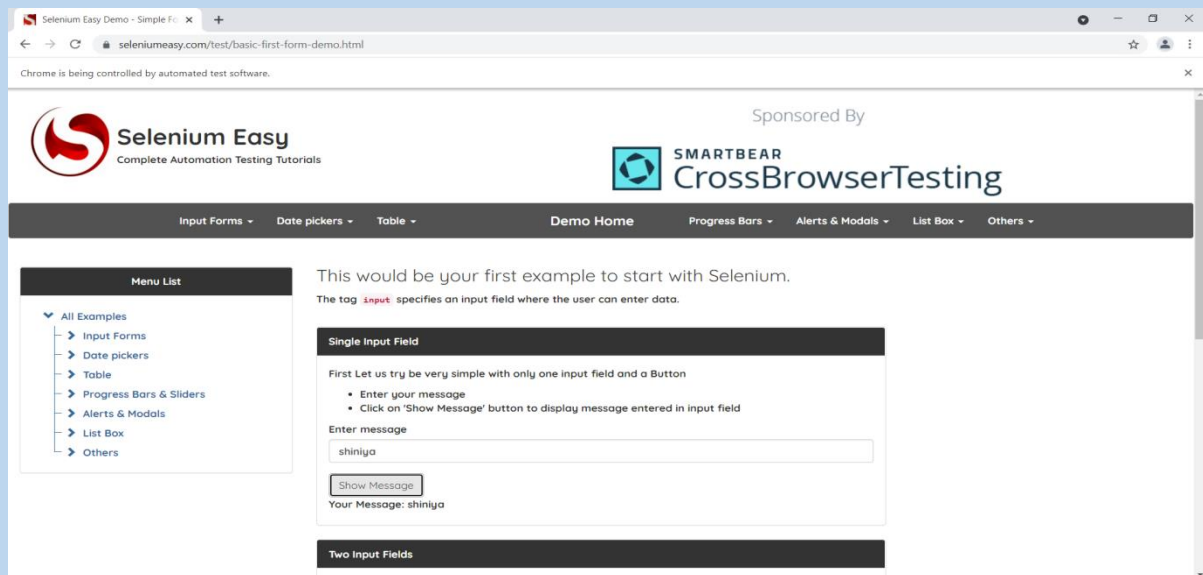Page title is : Selenium Easy - Best Demo website to practice Selenium Webdriver Online

TC04: To check the functionality of Home page.

```
w.findElement(By.LinkText("Demo Home")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div/a[2]/i")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div/a[1]/i")).click();
```
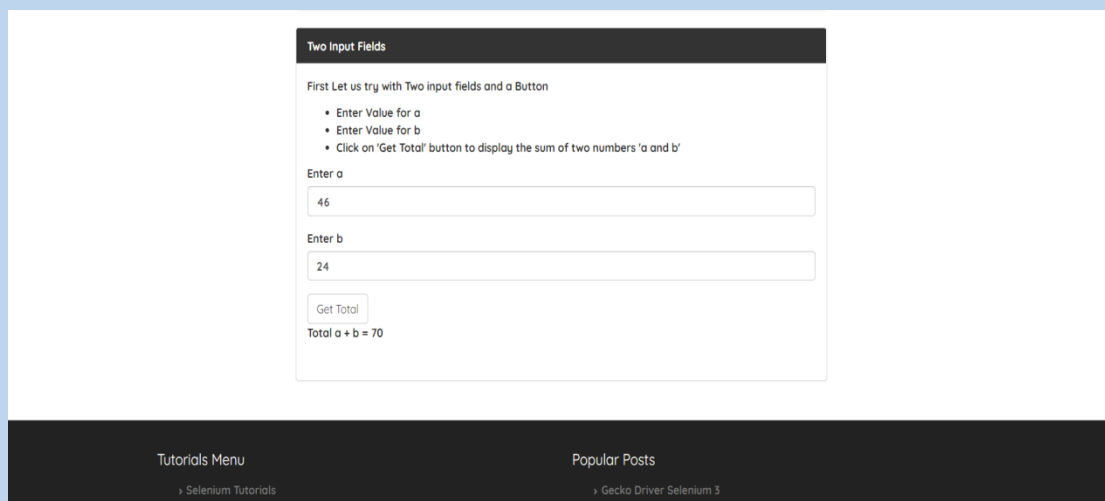
TC05:To check the functionality of Simple Form Demo with single input.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Input Forms")).click();
w.findElement(By.LinkText("Simple Form Demo")).click();
w.findElement(By.id("user-message")).sendKeys("shiniya");
```


TC06:To check the functionality of Simple Form Demo with two inputs.

```
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[1]/div[2]/form/but
ton")).click();
w.findElement(By.id("sum1")).sendKeys("46");
w.findElement(By.id("sum2")).sendKeys("24");
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div[2]/form/but
ton")).click();
w.navigate().back();
```

TC07:To check the functionality of Checkbox Demo with single checkbox.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Checkbox Demo")).click();
WebElement radio = w.findElement(By.id("isAgeSelected"));
radio.click();
```

This would be a basic example to start with checkboxes using selenium.

The HTML input `"checkbox"` is an input element to enter an array of different values. Eash input type checkbox has value attribute which is used to define the value submitted by the checkbox.

Single Checkbox Demo

Clicking on the checkbox will display a success message. Keep an eye on it

☑ Click on this check box

Success - Check box is checked

TC08:To check the functionality of Checkbox Demo with multiple checkbox .

```
w.findElement(By.id("check1")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div[2]/input[1]
")).click();
w.navigate().back();
```

Multiple Checkbox Demo

Check the below points before automating
- Click on 'Check All' to check all checkboxes at once.
- When you check all the checkboxes, button will change to 'Uncheck All'
- When you uncheck at least one checkbox, button will change to 'Check All'

☑ Option 1
☑ Option 2
☑ Option 3
☑ Option 4

Uncheck All

TC09:To check the functionality of Radio Buttons Demo.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Radio Buttons Demo")).click();
w.navigate().back();
```

This is again simple example to start working with radio buttons using Selenium.

We have listed two examples one with single radio button and group radio buttons

Radio Button Demo

Click on button to get the selected value

○ Male   ● Female

Get Checked value

Radio button 'Female' is checked

TC010:To check the functionality of Input Form Submit.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Input Form Submit")).click();
w.findElement(By.name("first_name")).sendKeys("Shin");
w.findElement(By.name("last_name")).sendKeys("Das");
w.findElement(By.name("email")).sendKeys("abc@yahoo.com");
w.findElement(By.name("phone")).sendKeys("1236547895");
w.findElement(By.name("address")).sendKeys("abcfyjghfutmd");
w.findElement(By.name("zip")).sendKeys("68202");
w.findElement(By.name("city")).sendKeys("ekmmm");
w.findElement(By.name("comment")).sendKeys("abcdefghijklmnop");
Select dropDown = new Select(w.findElement(By.name("state")));
dropDown.selectByVisibleText("California");
dropDown.selectByIndex(5);
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/section/form/fieldset/
div[13]/div/button")).click();
w.navigate().back();
```

Input form with validations

Contact Us Today!

First Name	👤 Shiniya ✔
Last Name	👤 Das
E-Mail	✉ abc@yahoo.com
Phone #	☎ 1236547895
Address	🏠 abcdefghi ✔
City	🏠 ekmm ✔
State	☰ California ⌄
Zip Code	🏠 68202
Website or domain name	🌐 Website or domain na
Do you have hosting?	○ Yes ○ No
Project Description	✎ abcdefghijklmno ph ✔

TC09:To check the functionality of Select Drop Down List.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Select Dropdown List")).click();
Select s=new Select(w.findElement(By.id("select-demo")));
s.selectByIndex(4);
w.navigate().back();
```

This would be your first example on select dropd down list to with Selenium.

We have listed two examples 1. Single Select and 2. Multi Select

Select List Demo

Selected value from the list will display below the dropdown
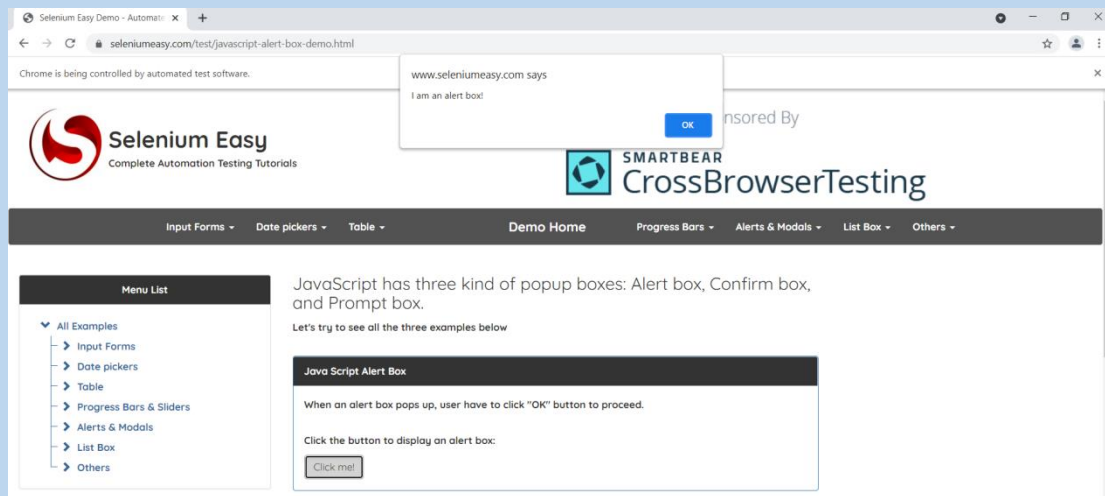
Select a day (select one):

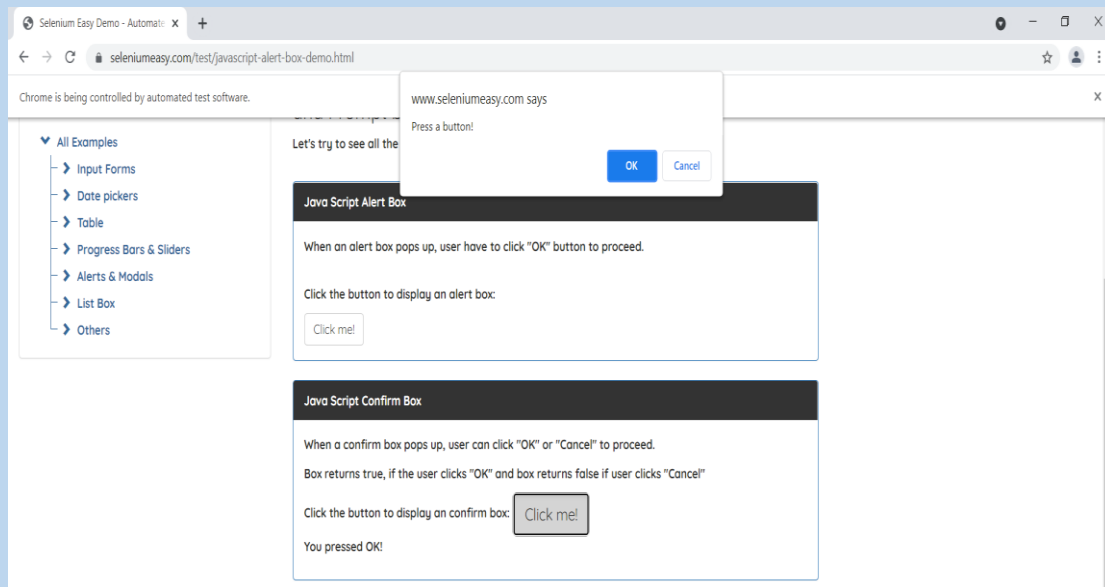| Wednesday	⌄

Day selected :- Wednesday

TC10:To check the functionality of Javascript Alert.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[2]/li[2]
/a")).click();
w.findElement(By.LinkText("Javascript Alerts")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[1]/div[2]/button")
).click();
w.switchTo().alert().accept();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div[2]/button")
).click();
w.switchTo().alert().accept();
w.navigate().back();
```
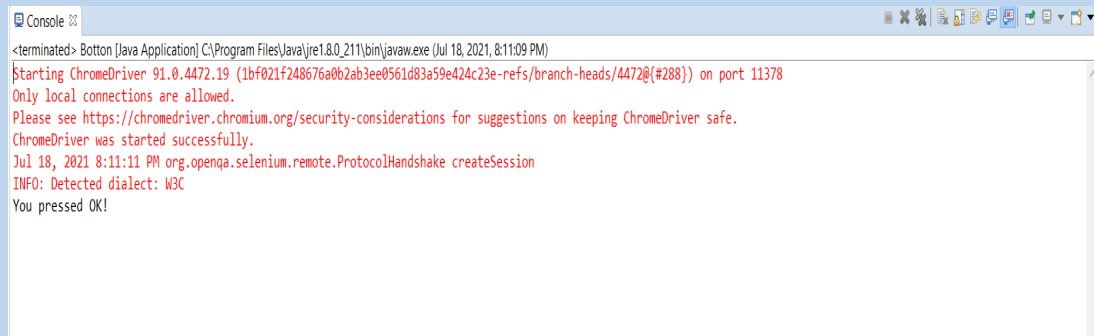

TC11:To check the functionality of Javascript Alert with confirm box.

```
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div[2]/button")
).click();
w.switchTo().alert().accept();
w.navigate().back();
```
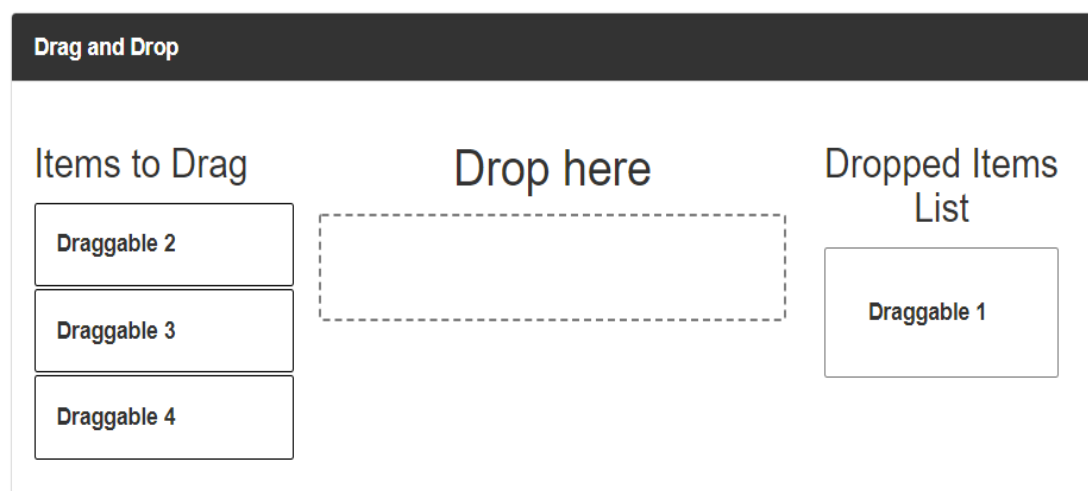
TC12:To Get the String.

```
String Text= w.findElement(By.id("confirm-demo")).getText();
System.out.println(Text);
w.navigate().back();
```

Console ⊠

<terminated> Botton [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Jul 18, 2021, 8:11:09 PM)

Starting ChromeDriver 91.0.4472.19 (1bf021f248676a0b2ab3ee0561d83a59e424c23e-refs/branch-heads/4472@{#288}) on port 11378
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 18, 2021 8:11:11 PM org.openqa.selenium.remote.ProtocolHandshake createSession
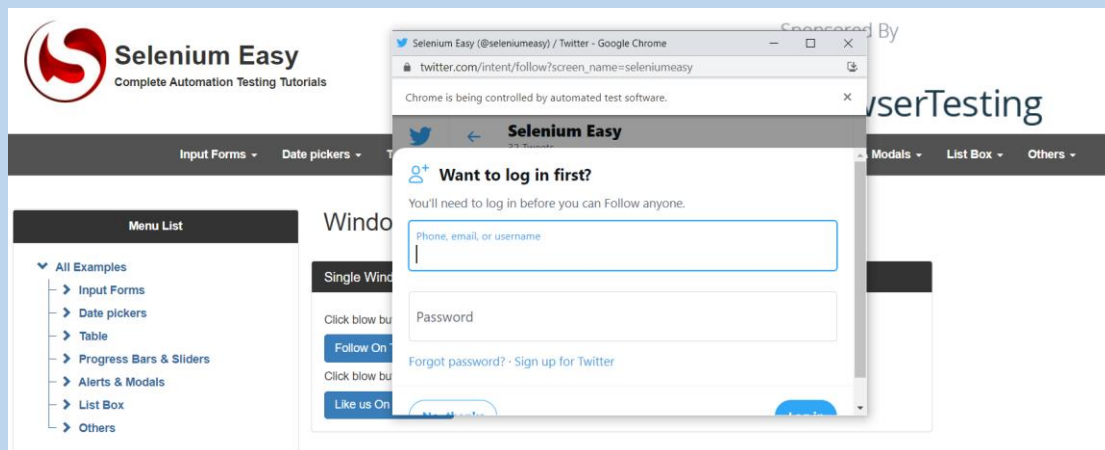INFO: Detected dialect: W3C
You pressed OK!

TC13:To check the functionality of Drag and Drop.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[2]/li[4]
/a")).click();
w.findElement(By.LinkText("Drag and Drop")).click();
WebElement
Drag=w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div/div[2]/div[1]
/span[1]"));
WebElement Drop=
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div/div[2]/div[2]/div"
));
Actions act= new Actions(w);
act.dragAndDrop(Drag, Drop).build().perform();
w.navigate().back();
```

Drag and Drop Demo for Automation

Drag and Drop

Items to Drag

Draggable 2

Draggable 3

Draggable 4

Drop here

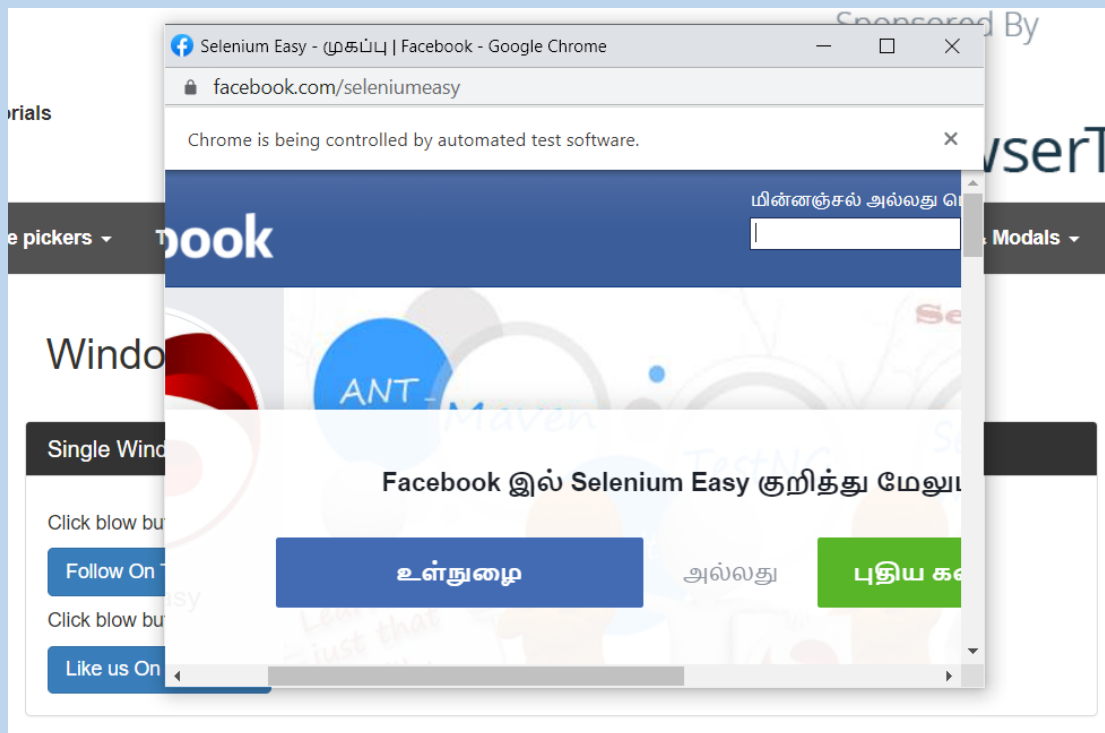Dropped Items List

Draggable 1

TC14:To check the functionality of Bootstrap Date Picker.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[2]
/a")).click();
w.findElement(By.LinkText("Bootstrap Date Picker")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[1]/div/div[2]/div/
div/span")).click();
w.findElement(By.xpath("/html/body/div[3]/div[1]/table/tbody/tr[2]/td[6]"))
.click();
w.navigate().back();
```

Bootstrap Date Pickers Example

Date Example :

- **Future Dates Disabled**
- **Days Of Week Disabled- Sunday**
- **Week Starts from Monday**
- **Click on 'Today' to select Current date**
- **Click on Clear button to clear the date entered**

Select Date

| 10/07/2021 | ⊞ |

TC15:To check the functionality of Window Popup Modal.

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[2]/li[2]
/a")).click();
w.findElement(By.LinkText("Window Popup Modal")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[1]/div/div[2]/div[
1]/a")).click();
Set <String> windows= w.getWindowHandles();
Iterator <String> it= windows.iterator();
String parent_window=it.next();
String child_window1 =it.next();
w.switchTo().window(parent_window);
Thread.sleep(3000);
w.switchTo().window(child_window1);
Thread.sleep(3000);
w.switchTo().window(parent_window);
w.navigate().back();
```
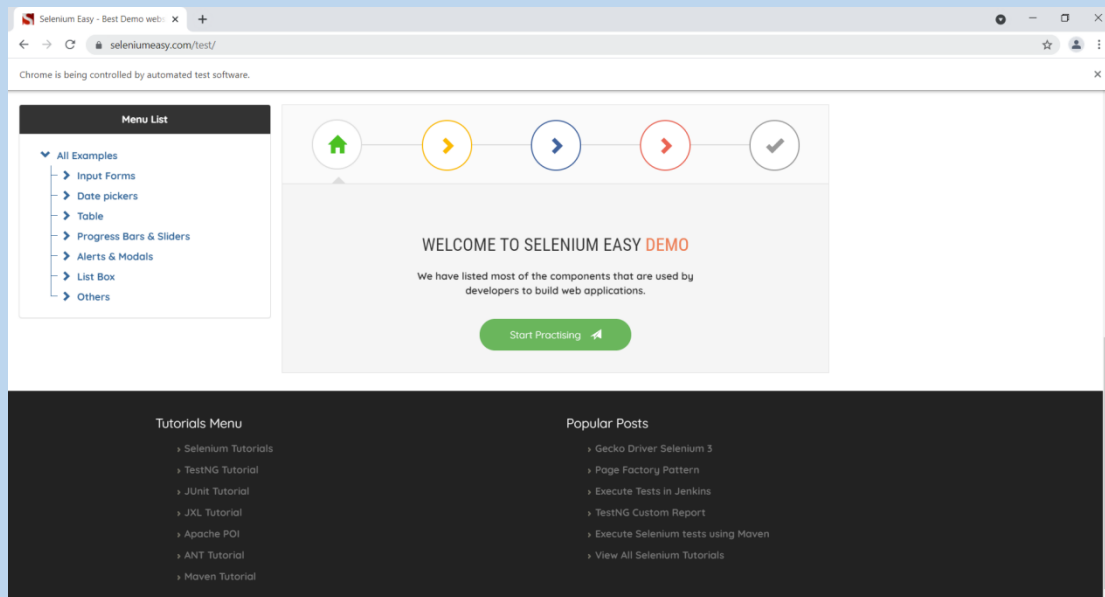
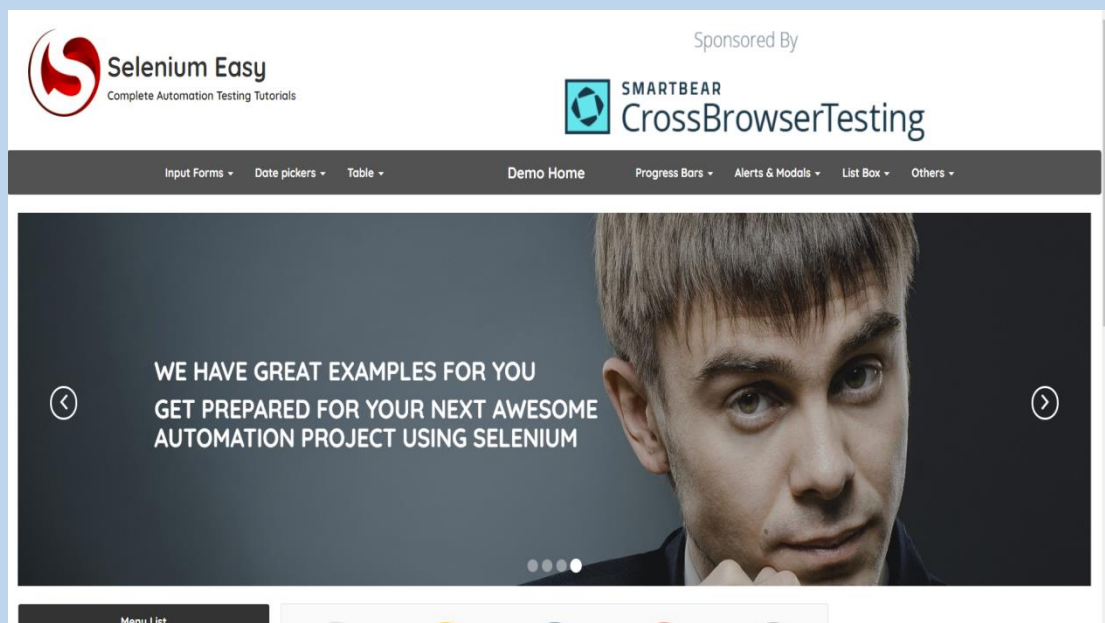Twitter Window:

Face Book Window :

TC16:To check the functionality of website horizontal Scrolling Down.

```java
WebElement Element = w.findElement(By.id("btn_basic_example"));
JavascriptExecutor js = (JavascriptExecutor) w;
js.executeScript("arguments[0].scrollIntoView();", Element);
//Thread.sleep(3000);
System.out.println("passed");
```

TC17:To check the functionality of website Scrolling Up.

```
js.executeScript("window.scrollBy(0,-3000)", "");
System.out.println("page up");
```


TC18:To get the Total Number of a Tag.

```
List<WebElement> L = w.findElements(By.tagName("a"));
System.out.println("Total Links are :" +L.size());
```

TC19:To Count Iframes.

```java
List<WebElement> L1 = w.findElements(By.tagName("iframe"));
System.out.println("Total iFrames are :" +L1.size()); // To get the total
number of <iframe> tag
w.navigate().back();
```
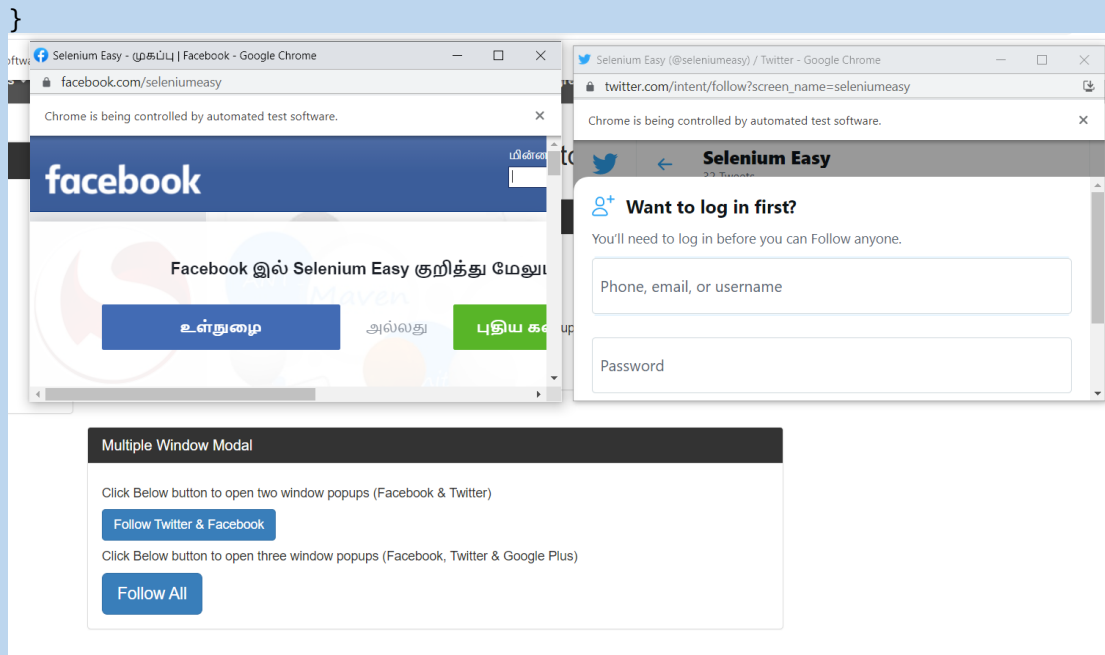
TC20:To check functionality of Follow Facebook&Twitter button.

```java
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[2]/li[2]/a")).click();
w.findElement(By.LinkText("Window Popup Modal")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div/div[2]/div[1]/a")).click();

//Get handles of the windows
String mainWindowHandle = w.getWindowHandle();
Set<String> allWindowHandles = w.getWindowHandles();
Iterator<String> iterator = allWindowHandles.iterator();

// Here we will check if child window has other child windows and will
fetch the heading of the child window
while (iterator.hasNext()) {
String ChildWindow = iterator.next();
if (!mainWindowHandle.equalsIgnoreCase(ChildWindow)) {
w.switchTo().window(ChildWindow);
System.out.println("Page title is  :" + w.getTitle());

w.navigate().back();
}
```
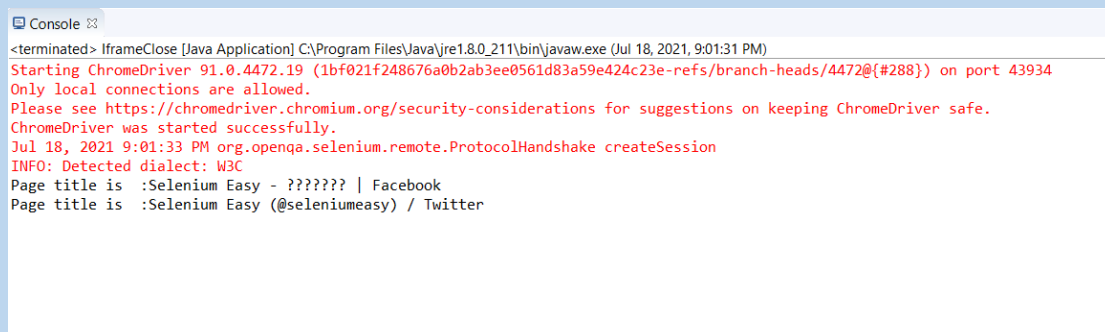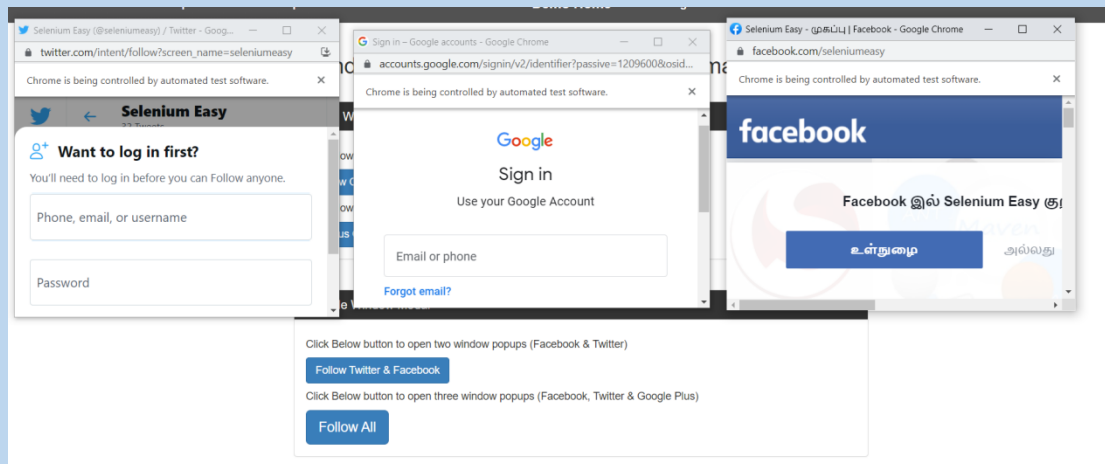
```
}
```


TC21:To Get the Title of Child Windows.

```java
System.out.println("Page title is  :" + w.getTitle());
```



```
<terminated> IframeClose [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Jul 18, 2021, 9:01:31 PM)
Starting ChromeDriver 91.0.4472.19 (1bf021f248676a0b2ab3ee0561d83a59e424c23e-refs/branch-heads/4472@{#288}) on port 43934
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 18, 2021 9:01:33 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Page title is  :Selenium Easy - ??????? | Facebook
Page title is  :Selenium Easy (@seleniumeasy) / Twitter
```
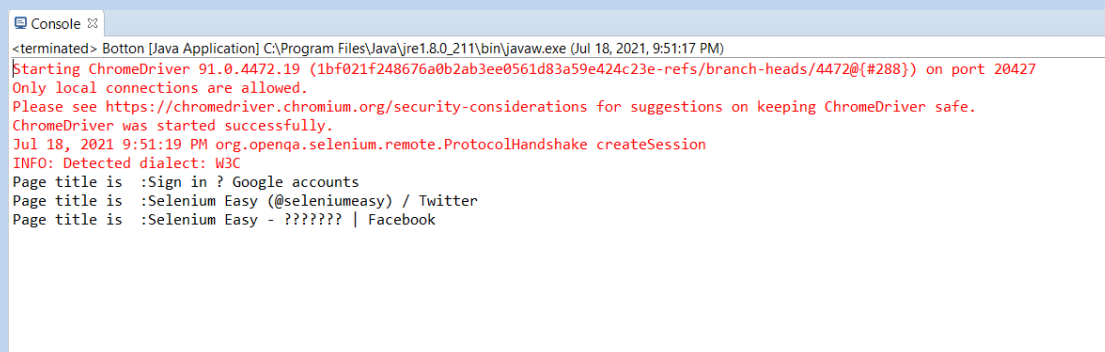
TC22:To check functionality of Follow Facebook&Twitter button.

```java
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[2]/li[2]/a")).click();
w.findElement(By.LinkText("Window Popup Modal")).click();
w.findElement(By.xpath("/html/body/div[2]/div/div[2]/div[2]/div/div[2]/div[2]/a")).click();
```
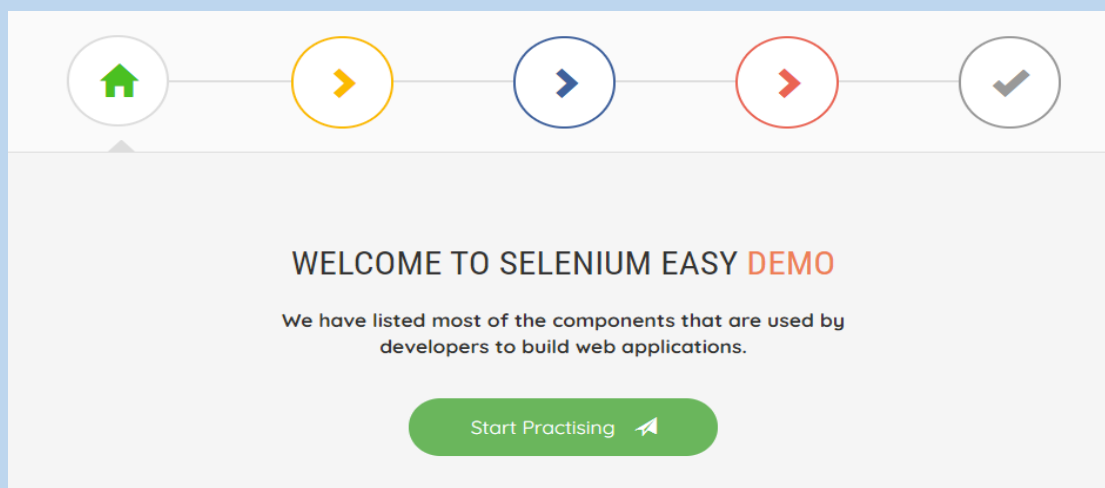
TC23:To Get the Title of Child Windows of Follow Facebook&Twitter button.

```
System.out.println("Page title is  :" + w.getTitle());
```


TC24:To check the functionality of Start Processing button.

```
w.findElement(By.id("btn_basic_example")).click();
w.findElement(By.id("inter_example")).click();
w.findElement(By.id("done_example")).click();
```

Final Console Window:

```
🖳 Console ⊠
<terminated> SeleniumEasy [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Jul 19, 2021, 6:57:44 PM)
Starting ChromeDriver 91.0.4472.19 (1bf021f248676a0b2ab3ee0561d83a59e424c23e-refs/branch-heads/4472@{#288}) on port 10339
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 19, 2021 6:57:46 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Page title is : Selenium Easy - Best Demo website to practice Selenium Webdriver Online
You pressed OK!
passed
Successfully Scrolled Down
Successfully Scrolled Up
Total Links are :128
Total iFrames are :1
Clicked On Start Practicing Button
Clicked On Proceed Next
Clicked On Proceed Next Button

Page title is  :Selenium Easy (@seleniumeasy) / Twitter
Page title is  :Selenium Easy - முகப்பு|Facebook
Page title is  :Selenium Easy (@seleniumeasy) / Twitter
Website Successfully Tested
```

Defects :

Input Form with invalid data

```
w.findElement(By.xpath("/html/body/div[1]/div[2]/nav/div/div[2]/ul[1]/li[1]
/a")).click();
w.findElement(By.LinkText("Input Form Submit")).click();
w.findElement(By.name("first_name")).sendKeys("123654");
w.findElement(By.name("last_name")).sendKeys("646/@@@");
w.findElement(By.name("email")).sendKeys("shiniya@h");
w.findElement(By.name("phone")).sendKeys("1234567895****");
w.findElement(By.name("zip")).sendKeys("534867");
w.findElement(By.name("city")).sendKeys("354866764");
```

Input form with validations

Contact Us Today!

First Name	123654 ✔
Last Name	646/@@@ ✔
E-Mail	shiniya@h ✔
Phone #	1234567895**** ✔
Address	Address
City	534867 ✔
State	Please select ⌄
Zip Code	354866764 ✔
Website or domain name	Website or domain na
Do you have hosting?	● Yes ○ No
Project Description	Project Description

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