

## Phase – 5 Practice Project: Assisted Practice

### 5. Working with External Elements.

- Code

- ✓ **AdvancedLocatingElements.java**

```
package com.ecommerce.test;

import java.time.Duration;
import java.util.List;
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.WindowType;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.WebDriverWait;

public class AdvancedLocatingElements {

    public static void main(String[] args) throws InterruptedException
    {
        // Basic configuration
        WebDriver driver = new ChromeDriver();

        // Demo Alerts
        demoExternalElements(driver);

        demoExternalElementsNewTab(driver);
    }

    private static void demoExternalElementsNewTab(WebDriver driver)
    throws InterruptedException {
        String baseUrl = "File:///D:\\Eclipse Projects\\hello-
selenium\\src\\main\\resources\\test.html";
        driver.get(baseUrl);

        // driver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);
        Thread.sleep(10000);

        driver.switchTo().newWindow(WindowType.TAB);
        driver.navigate().to("https://www.google.com?q=flowers");
    }

    static void demoExternalElements(WebDriver driver) throws
InterruptedException {

        String baseUrl = "File:///D:\\Eclipse Projects\\hello-
selenium\\src\\main\\resources\\test.html";
```

```

        driver.get(baseUrl);

        // driver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);
        Thread.sleep(10000);

        driver.findElement(By.linkText("See an example
alert")).click();

        // alert will appear now, may be in 10 secs
WebDriverWait wait = new WebDriverWait(driver,
Duration.ofSeconds(10));

        // Wait for the alert to be displayed
wait.until(ExpectedConditions.alertIsPresent());

        // Store the alert in a variable
Alert alert = driver.switchTo().alert();

        System.out.printf("\n alert text is %s \n", alert.getText());

        Thread.sleep(10000);

        alert.accept();
    }

```

## ✓ test.html

```

<html>
<head>
<title>Hello</title>
<script>
    function myDb1ClickFunction() {
        document.getElementById("demo-messages").textContent = "You
double clicked me!";
        document.getElementById("demo-messages").style.color = "red";
    }

    function mySglClickFunction() {
        document.getElementById("demo-messages").textContent = "You
single clicked me!";
        document.getElementById("demo-messages").style.color = "blue";
    }
</script>
</head>
<body bgcolor="#ffeeee">
    DEMO-MESSAGES:
    <span id="demo-messages">GETTING STARTED</span>

    <span id="xyz">Hello world!</span> Alerts The simplest of these is
referred to as an alert, which shows a custom message, and a single
button which dismisses the alert, labelled in most browsers as OK.

```

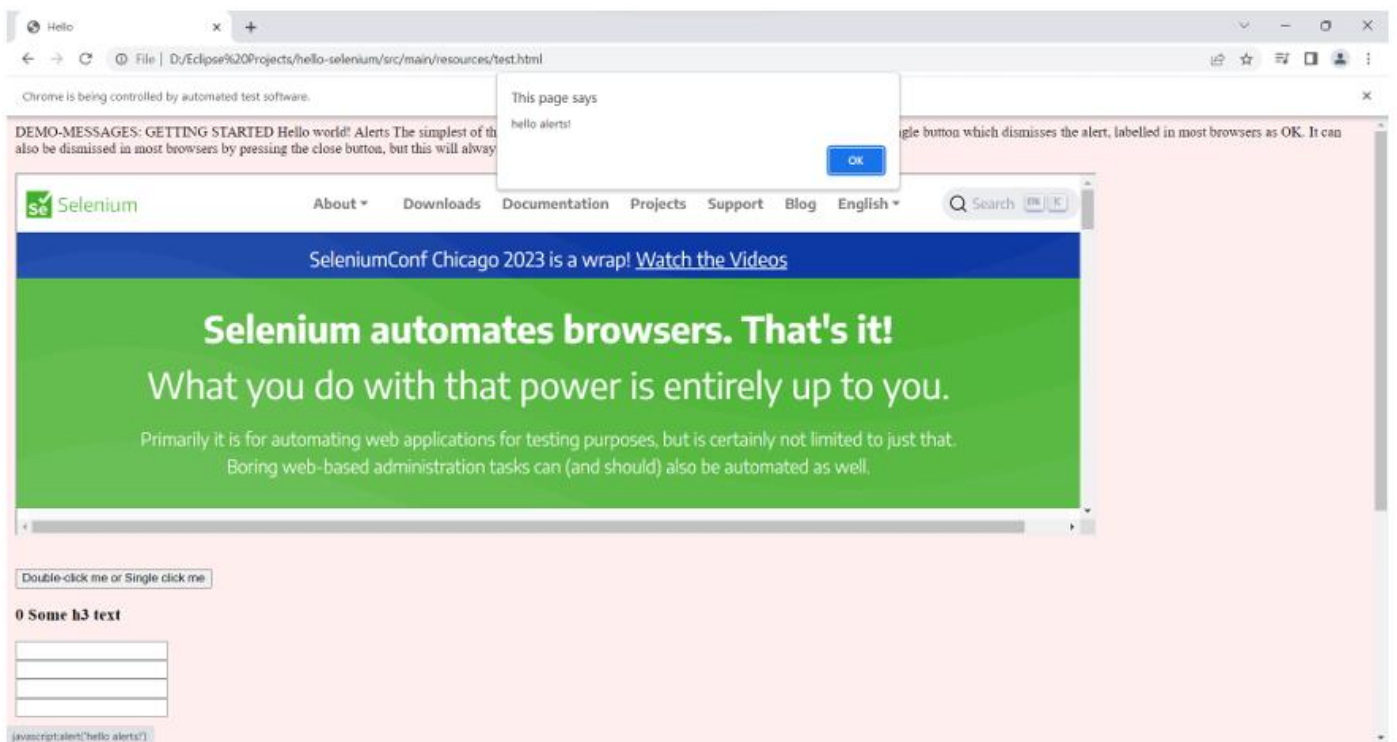
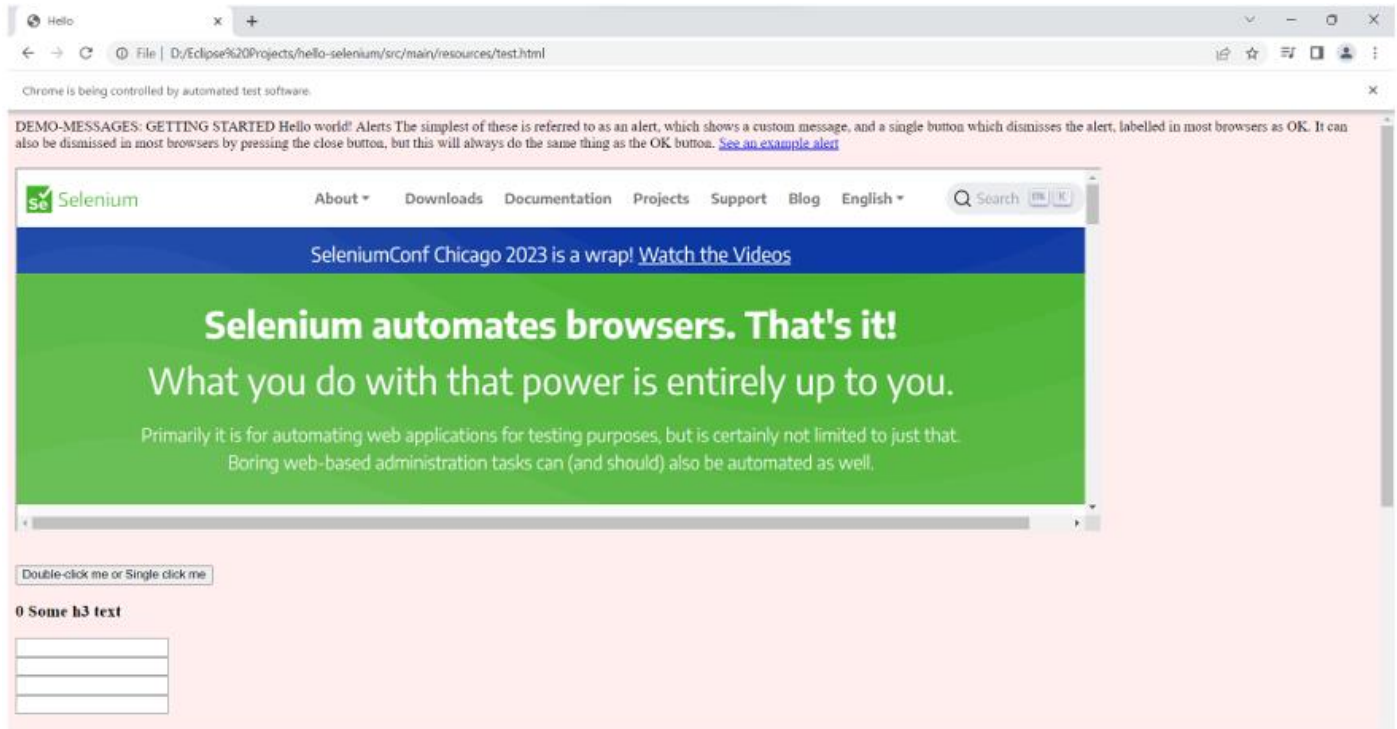
It  
can also be dismissed in most browsers by pressing the close  
button,

but this will always do the same thing as the OK button.

```
<a href="javascript:alert('hello alerts!')">See an example  
alert</a>
```

```
<br>  
<br>  
<div id="modal">  
  <iframe id="myframe" name="myframe"  
src="https://seleniumhq.github.io"  
    width=1200 height=400> </iframe>  
</div>  
  
<br>  
<br>  
  
<button id="dblButton" ondblclick="myDblClickFunction()" "  
  onclick="mySglClickFunction()">Double-click me or Single  
  click me</button>  
  
<h3>0 Some h3 text</h3>  
<form>  
  <input type="text" id="admin"> <br> <input type="text"  
    id="admin123"> <br> <input type="text" id="adminxyz">  
  <br> <input type="text" id="adm"> <br>  
  
</form>  
<h3>1 Some h3 text</h3>  
<h3>2 Some h3 text</h3>  
<h3>3 Some h3 text</h3>  
  
<div id='eCommerce'>  
  <h4>h4 first</h4>  
  <h4>h4 second</h4>  
</div>  
  
<select multiple aria-label="Month" name="birthday_month"  
id="month"  
  title="Month" class="_9407_5dba_9hk6_8esg" size="12">  
  <option value="1">Jan</option>  
  <option value="2">Feb</option>  
  <option value="3">Mar</option>  
  <option value="4">Apr</option>  
  <option value="5">May</option>  
  <option value="6">Jun</option>  
  <option value="7" selected="1">Jul</option>  
  <option value="8">Aug</option>  
  <option value="9">Sep</option>  
  <option value="10">Oct</option>  
  <option value="11">Nov</option>  
  <option value="12">Dec</option>  
</select>  
  
<input type="text" id="WWWxyz">  
  
</body>  
</html>
```

## • Output





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