



Y21CS130

Output :

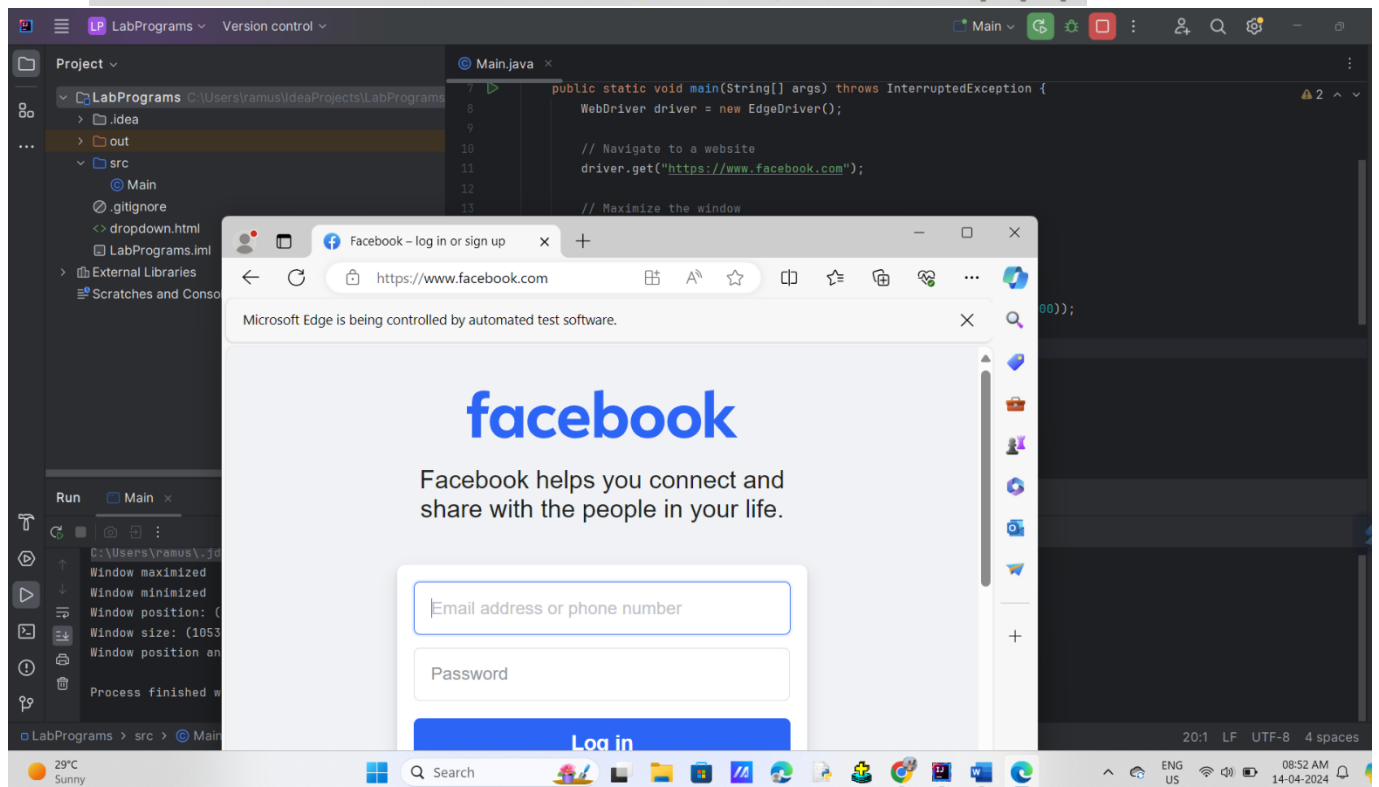
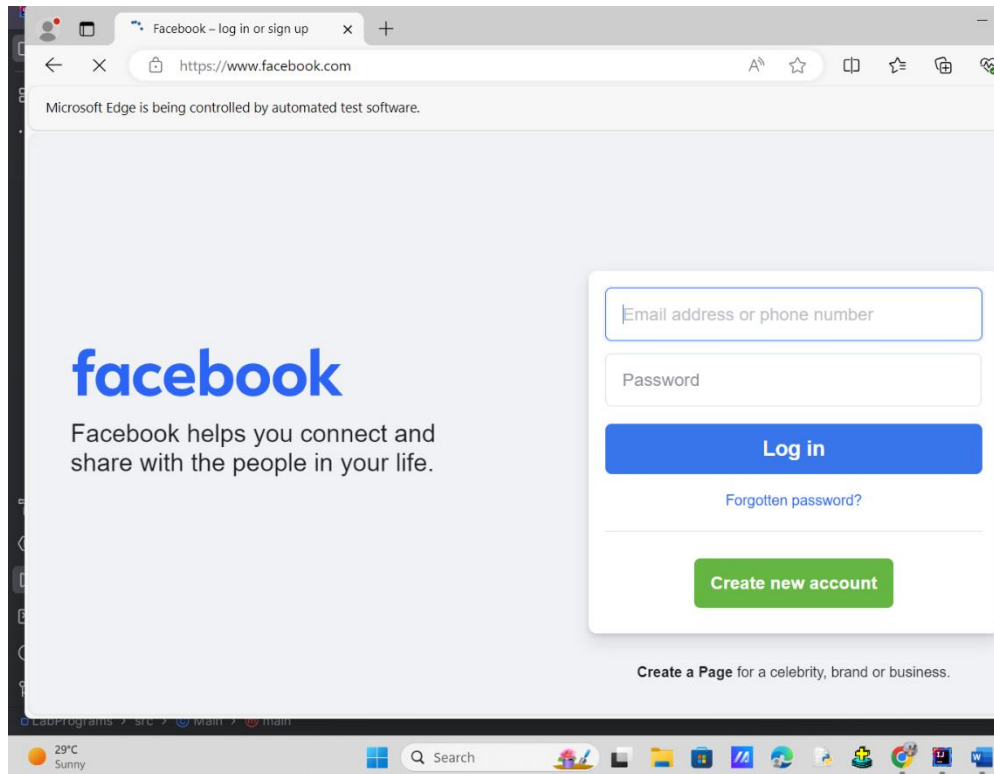
Window maximized

Window minimized

Window position: (-2000, -2000)

Window size: (1053, 698)

Window position and size changed



**Y21CS130**

1) Write a Selenium Java program to demonstrate Window Operations.

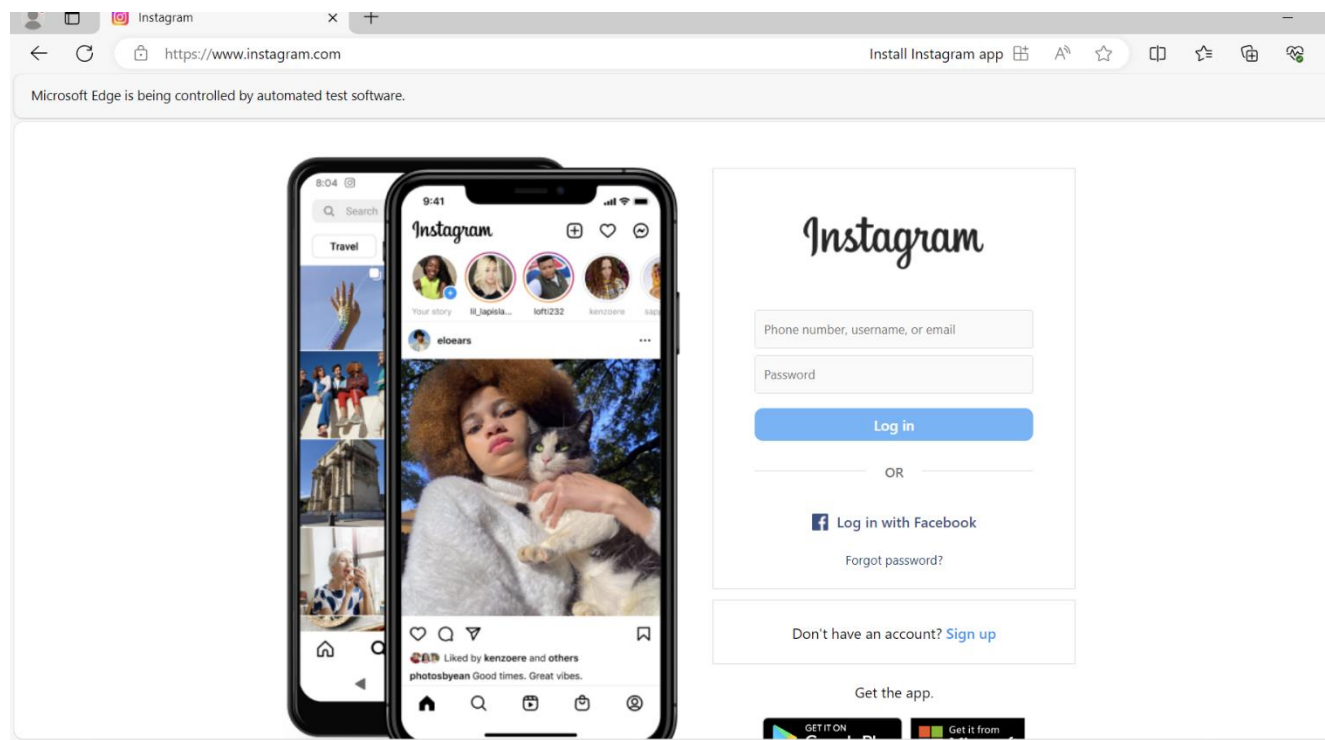
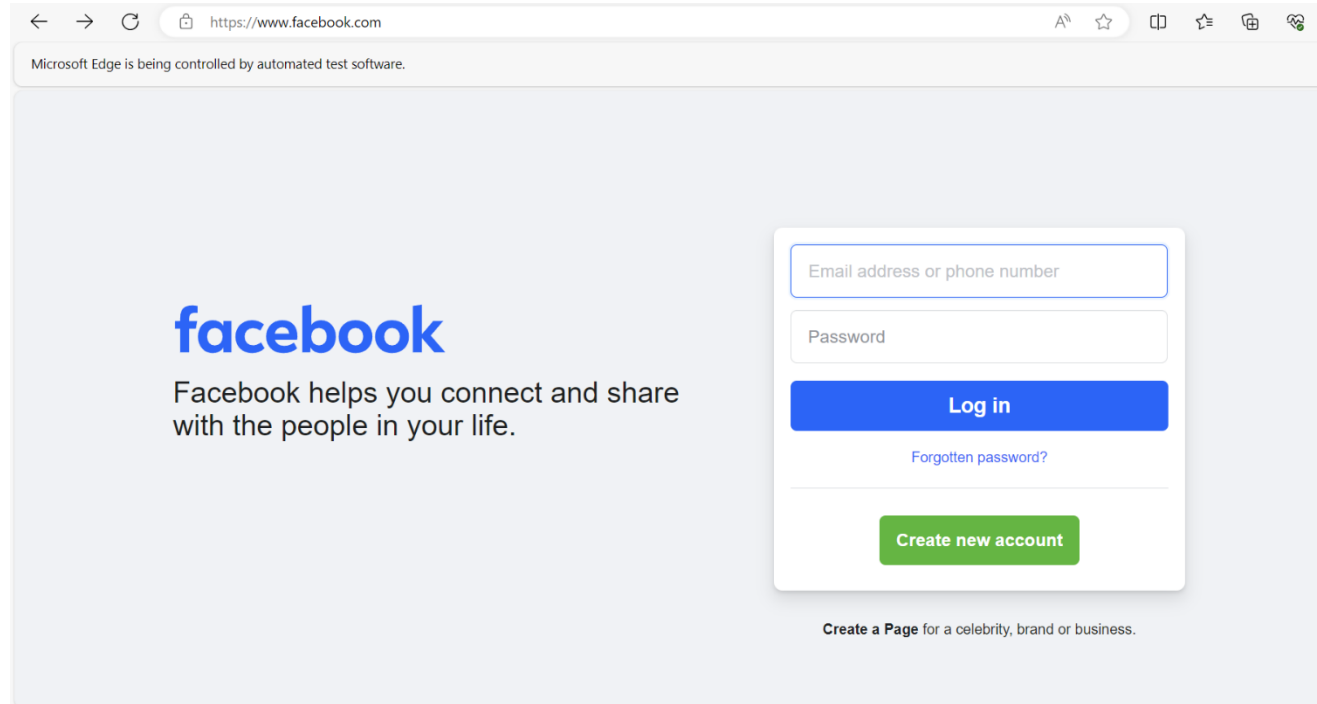
**Program :**

```
import org.openqa.selenium.Dimension;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

public class Main {
    public static void main(String[] args) throws InterruptedException {
        WebDriver driver = new EdgeDriver();
        driver.get("https://www.facebook.com");
        driver.manage().window().maximize();
        System.out.println("Window maximized");
        driver.manage().window().setPosition(new Point(-2000, -2000));
        System.out.println("Window minimized");
        Thread.sleep(10000);
        Point position = driver.manage().window().getPosition();
        Dimension size = driver.manage().window().getSize();
        System.out.println("Window position: " + position);
        System.out.println("Window size: " + size);
        driver.manage().window().setPosition(new Point(200, 200));
        driver.manage().window().setSize(new Dimension(800, 600));
        System.out.println("Window position and size changed");
        driver.quit();
    }
}
```

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Output :



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2) Write a Selenium Java program to demonstrate Navigation.

**Program :**

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;
public class Main {
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        driver.get("https://www.facebook.com");
        System.out.println("Current URL: " + driver.getCurrentUrl());
        try {
            Thread.sleep(5000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        driver.get("https://www.instagram.com");
        System.out.println("After Navigating to Instagram, Current URL: " + driver.getCurrentUrl());
        try {
            Thread.sleep(5000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        driver.navigate().back();
        driver.navigate().refresh();
        System.out.println("After Navigating Back to Facebook, Current URL: " + driver.getCurrentUrl());
        driver.quit();
    }
}
```

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### Output :

1. Current URL: <https://www.example.com/>
1. Page Title: Example Domain
2. Page Title: Example Domain
3. Current URL: <https://www.example.com/>
4. Page Source Length: 1233
5. Found Element: Example Domain
6. Found Elements Count: 1
7. Current Window Handle: 8A110B3483C102BE6127EF62FE7EF81E
8. Window Handles Count: 1
10. Browser window maximized
11. Navigated to Selenium website
12. Current window closed
13. Browser quit

← → ↻  example.com

## Example Domain

This domain is for use in illustrative examples in documents. You may use this domain in literature without prior coordination or asking for permission.

[More information...](#)

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3) Write a Selenium Java program to demonstrate the Web Driver Operations.

**Program :**

```
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.edge.EdgeDriver;

import org.openqa.selenium.By;

import java.util.List;

import java.util.Set;

public class Main {

    public static void main(String[] args) {

        WebDriver driver = new EdgeDriver();

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

        System.out.println("1. Current URL: " + driver.getCurrentUrl());

        System.out.println("1. Page Title: " + driver.getTitle());

        System.out.println("2. Page Title: " + driver.getTitle()+"\n3. Current URL: " + driver.getCurrentUrl());

        String pageSource = driver.getPageSource();

        System.out.println("4. Page Source Length: " + pageSource.length());

        WebElement element = driver.findElement(By.tagName("h1"));

        System.out.println("5. Found Element: " + element.getText());

        List<WebElement> elements = driver.findElements(By.tagName("a"));

        System.out.println("6. Found Elements Count: " + elements.size());

        String windowHandle = driver.getWindowHandle();

        System.out.println("7. Current Window Handle: " + windowHandle);

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

        System.out.println("8. Window Handles Count: " + windowHandles.size());

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

        System.out.println("10. Browser window maximized");

        driver.navigate().to("https://www.selenium.dev");

        System.out.println("11. Navigated to Selenium website");

        driver.close();

        System.out.println("12. Current window closed");

        driver.quit();

        System.out.println("13. Browser quit");}}
```

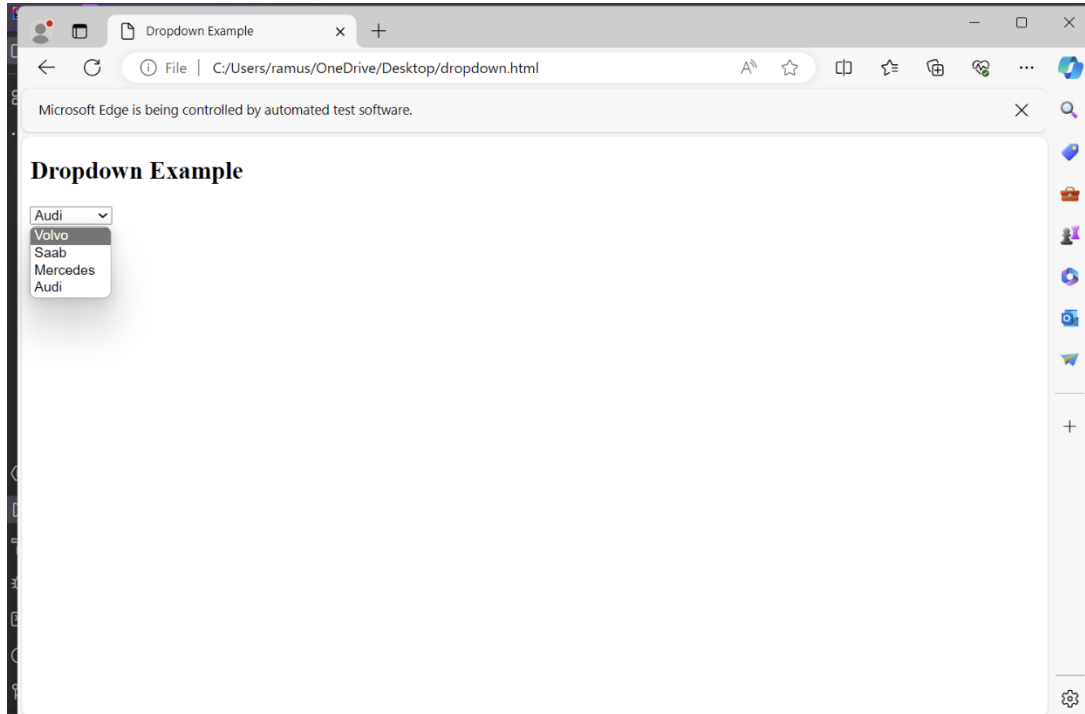
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### Output :

Selected Option: Volvo

Selected Option: Mercedes

Selected Option: Audi





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4) Write a Selenium Java program to demonstrate Drop Down or List.

### Program :

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.By;
import org.openqa.selenium.support.ui.Select;

public class Main {
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        String htmlFilePath = "file:C:\\Users\\ramus\\OneDrive\\Desktop\\dropdown.html";
        driver.get(htmlFilePath);
        WebElement dropdownElement = driver.findElement(By.id("myDropdown"));
        Select dropdown = new Select(dropdownElement);
        dropdown.selectByVisibleText("Volvo");
        WebElement selectedOption = dropdown.getFirstSelectedOption();
        System.out.println("Selected Option: " + selectedOption.getText());
        dropdown.selectByIndex(2); // Index starts from 0
        selectedOption = dropdown.getFirstSelectedOption();
        System.out.println("Selected Option: " + selectedOption.getText());
        dropdown.selectByValue("audi");
        selectedOption = dropdown.getFirstSelectedOption();
        System.out.println("Selected Option: " + selectedOption.getText());
        driver.quit();
    }
}
```

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**Output :**

Text inside Frame 1: This is content inside Frame 1.

Text inside Frame 2: This is content inside Frame 2.



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5) Write a Selenium Java program to demonstrate Frame and IFrame.

**Program :**

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.By;
public class Main {
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        String htmlFilePath = "file:C:\\Users\\ramus\\OneDrive\\Desktop\\Automation Testing Html Files\\frames.html";
        driver.get(htmlFilePath);

        driver.switchTo().frame("frame1");
        WebElement frame1Element = driver.findElement(By.tagName("p"));
        System.out.println("Text inside Frame 1: " + frame1Element.getText());

        driver.switchTo().defaultContent();

        driver.switchTo().frame("frame2");
        WebElement frame2Element = driver.findElement(By.tagName("h2"));
        System.out.println("Text inside Frame 2: " + frame2Element.getText());
        driver.quit();
    }
}
```

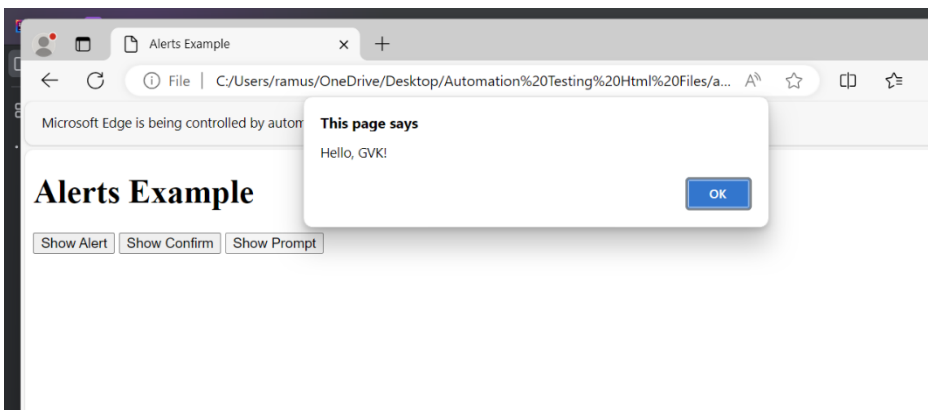
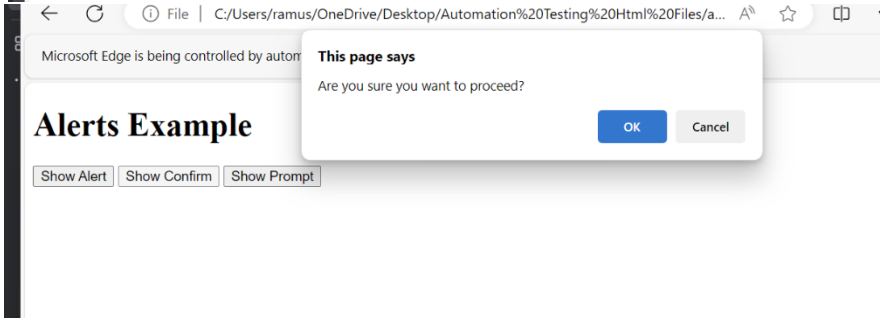
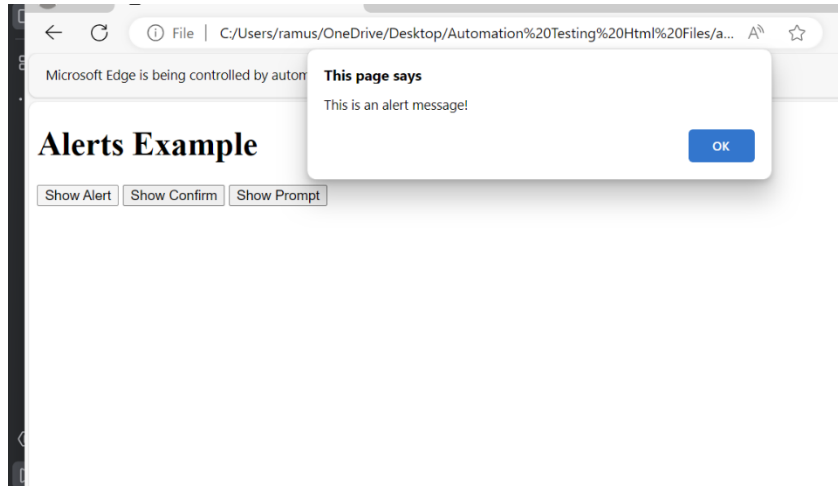
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Output :

Alert text: This is an alert message!

Confirm alert text: Are you sure you want to proceed?

Alert was already dismissed.



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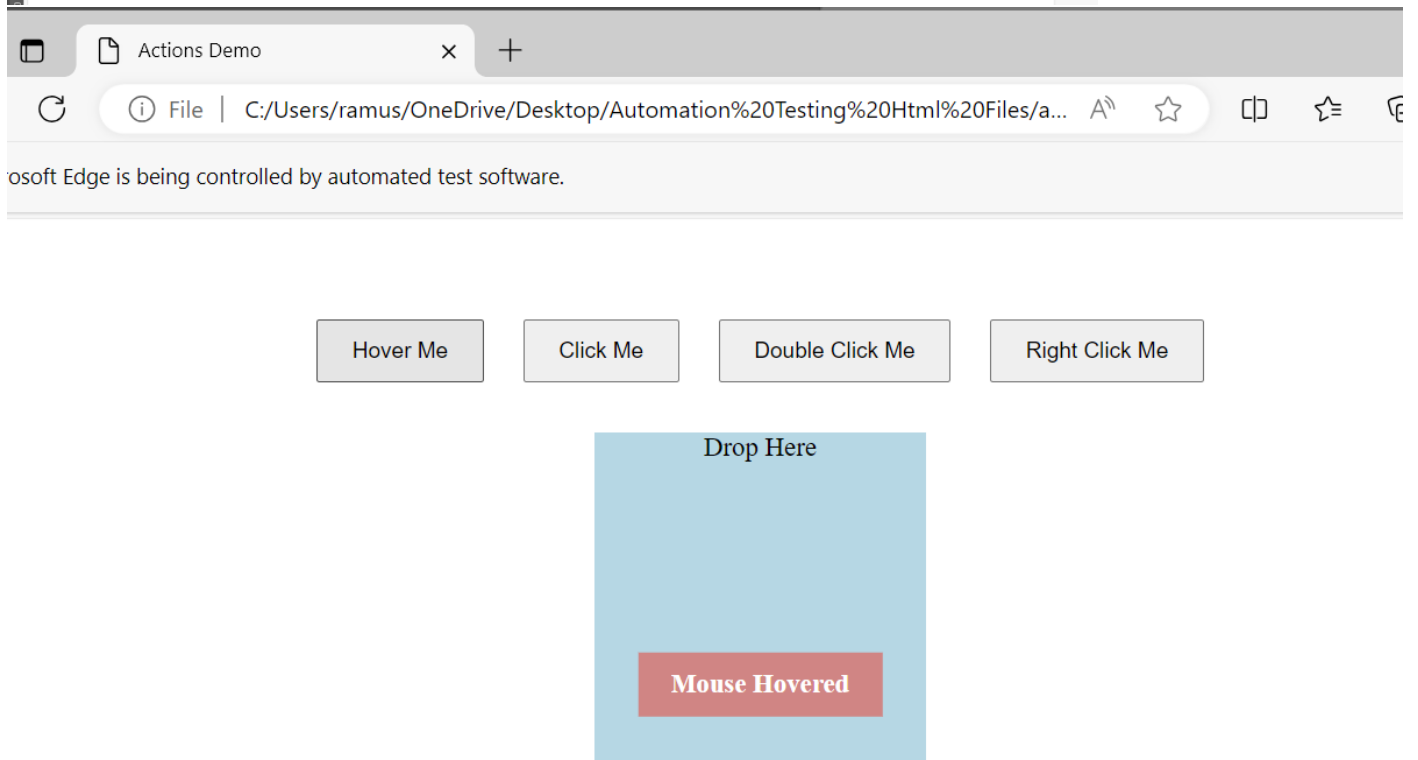
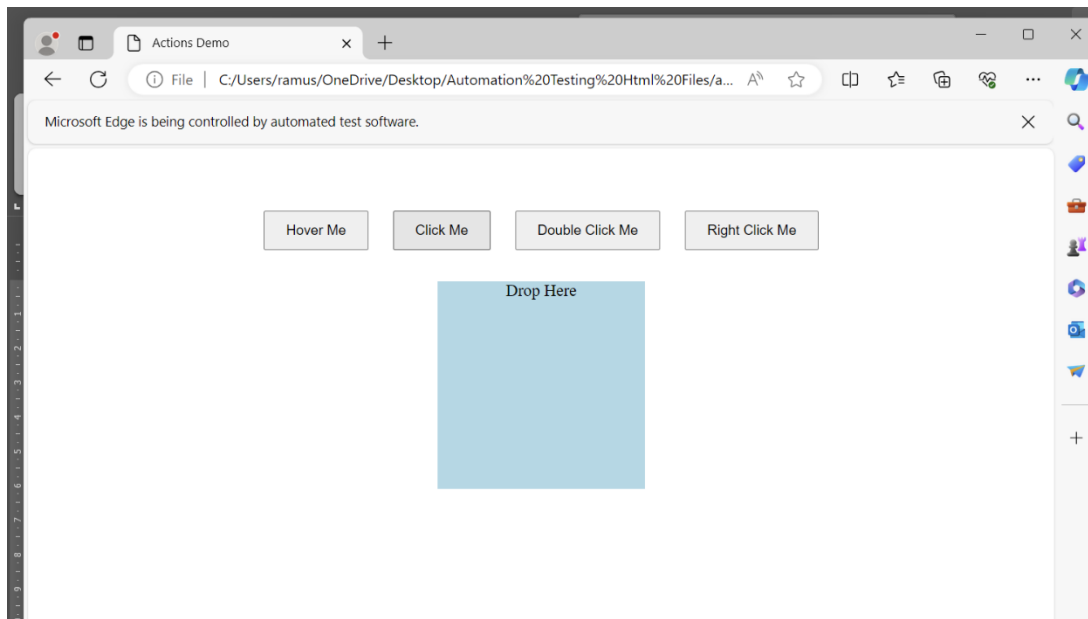
6) Write a Selenium Java program to demonstrate Alerts.

**Program :**

```
import org.openqa.selenium.Alert;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.By;
import org.openqa.selenium.UnhandledAlertException;
public class Main{
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        String htmlFilePath = "file:C:\\Users\\ramus\\OneDrive\\Desktop\\Automation Testing Html Files\\alerts.html";
        driver.get(htmlFilePath);
        WebElement alertButton = driver.findElement(By.xpath("//button[text()='Show Alert']"));
        alertButton.click();
        Alert alert = driver.switchTo().alert();
        System.out.println("Alert text: " + alert.getText());
        alert.accept();
        WebElement confirmButton = driver.findElement(By.xpath("//button[text()='Show Confirm']"));
        confirmButton.click();
        Alert confirmAlert = driver.switchTo().alert();
        System.out.println("Confirm alert text: " + confirmAlert.getText());
        confirmAlert.dismiss();
        WebElement promptButton = driver.findElement(By.xpath("//button[text()='Show Prompt']"));
        promptButton.click();
        Alert promptAlert = driver.switchTo().alert();
        promptAlert.sendKeys("Selenium");
        System.out.println("Prompt alert text: " + promptAlert.getText());
        try {
            promptAlert.accept();
        } catch (UnhandledAlertException e) {
            // Alert was already dismissed by previous actions, no need to handle it again
            System.out.println("Alert was already dismissed");
        }
        driver.quit();
    }
}
```

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Output :



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7) Write a Selenium Java program to demonstrate Actions(Mouse and Key Board).

**Program :**



```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.interactions.Actions;

public class Main{
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        driver.get("file:///C:\\Users\\ramus\\OneDrive\\Desktop\\Automation Testing Html Files\\actions.html");
        WebElement hoverButton = driver.findElement(By.id("hoverButton"));
        WebElement clickButton = driver.findElement(By.id("clickButton"));
        WebElement doubleClickButton = driver.findElement(By.id("doubleClickButton"));
        WebElement rightClickButton = driver.findElement(By.id("rightClickButton"));
        WebElement targetElement = driver.findElement(By.id("target"));
        Actions actions = new Actions(driver);
        actions.moveToElement(hoverButton).perform();
        actions.click(clickButton).perform();
        actions.doubleClick(doubleClickButton).perform();
        actions.contextClick(rightClickButton).perform();
        actions.dragAndDrop(clickButton, targetElement).perform();
        driver.quit();
    }
}
```

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Output :

Screenshot saved to: ./screenshot.png



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8) Write a Selenium Java program to demonstrate Screen Shot.

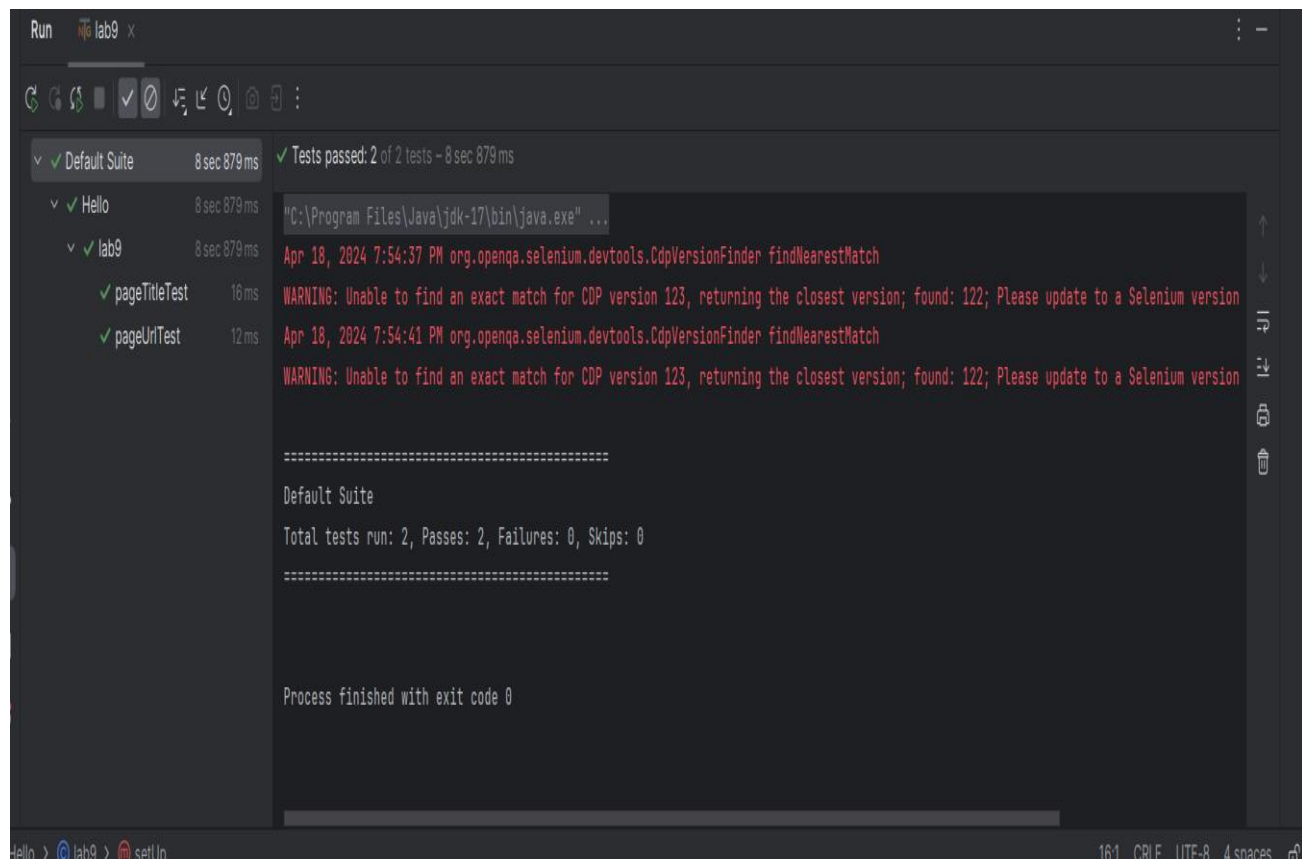
### Program :

```
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

import java.io.File;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.StandardCopyOption;

public class Main {
    public static void main(String[] args) {
        WebDriver driver = new EdgeDriver();
        driver.get("https://www.example.com");
        File screenshotFile = ((TakesScreenshot) driver).getScreenshotAs(OutputType.FILE);
        String screenshotPath = "./screenshot.png";
        try {
            Files.copy(screenshotFile.toPath(), new File(screenshotPath).toPath(),
StandardCopyOption.REPLACE_EXISTING);
            System.out.println("Screenshot saved to: " + screenshotPath);
        } catch (IOException e) {
            System.err.println("Failed to save screenshot: " + e.getMessage());
        }
        driver.quit();
    }
}
```

**Output :**



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9) Write a Selenium Java program to demonstrate Testing/Assertions and Annotations.

**Program :**

```
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.Test;

public class lab9 {

    private WebDriver driver;

    @BeforeMethod

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

    }

    @Test

    public void pageTitleTest() {

        String title = driver.getTitle();

        Assert.assertEquals(title, "Facebook – log in or sign up", "Page title doesn't match");

    }

    @Test

    public void pageUrlTest() {

        String url = driver.getCurrentUrl();

        Assert.assertTrue(url.contains("facebook"), "URL doesn't contain expected string");

    }

    @AfterMethod

    public void tearDown() {

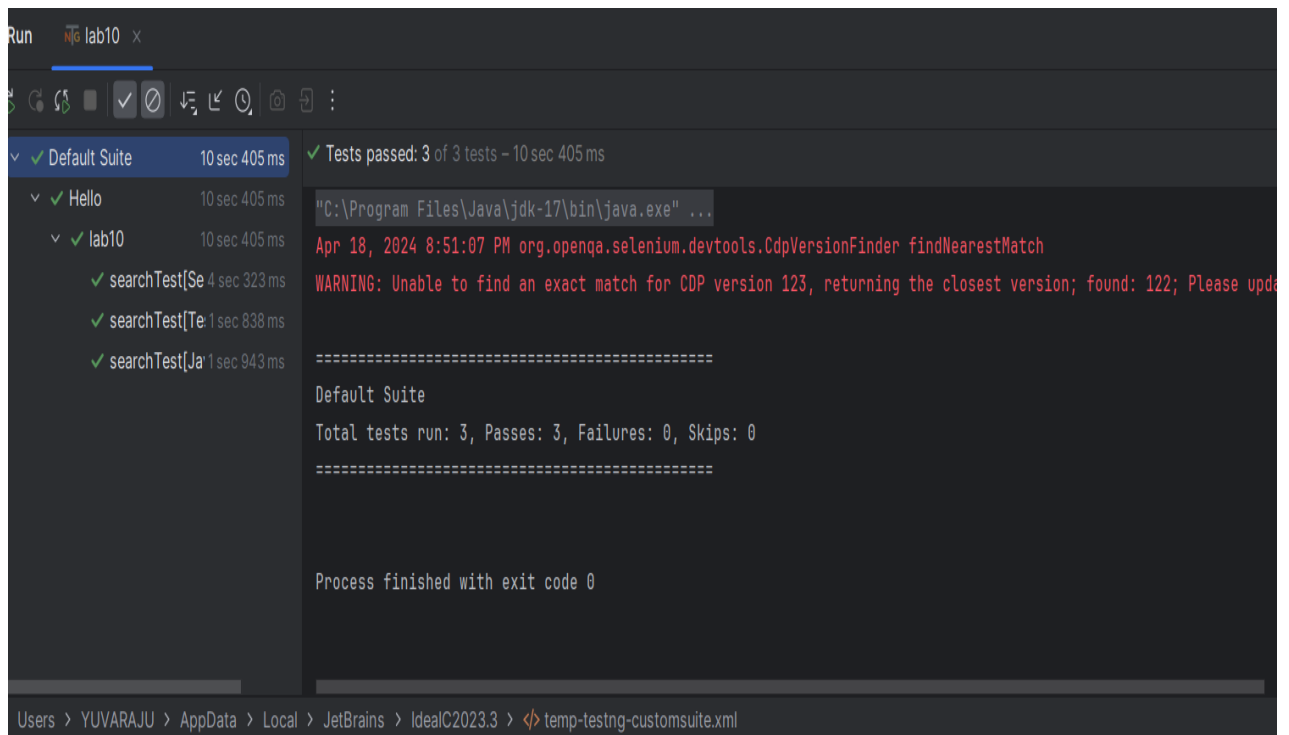
        driver.quit();

    }

}
```

## Y21CS130

### Output :



The screenshot shows the 'Run' window of an IDE. The left pane displays a tree view of the test results:

- ✓ Default Suite 10 sec 405 ms
  - ✓ Hello 10 sec 405 ms
    - ✓ lab10 10 sec 405 ms
      - ✓ searchTest[Se] 4 sec 323 ms
      - ✓ searchTest[Te] 1 sec 838 ms
      - ✓ searchTest[Ja] 1 sec 943 ms

The right pane shows the output of the tests:

```
"C:\Program Files\Java\jdk-17\bin\java.exe" ...  
Apr 18, 2024 8:51:07 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch  
WARNING: Unable to find an exact match for CDP version 123, returning the closest version; found: 122; Please update  
=====  
Default Suite  
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0  
=====  
  
Process finished with exit code 0
```

The bottom status bar shows the file path: Users > YUVARAJU > AppData > Local > JetBrains > IdealC2023.3 > temp-testng-customsuite.xml

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10) Write a Selenium Java program to demonstrate Date Driven Test.

**Program :**

```
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

public class lab10{

    WebDriver driver;

    @BeforeClass

    public void setUp() {

        driver = new ChromeDriver();

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

    }

    @Test(dataProvider = "searchData")

    public void searchTest(String keyword) {

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

        driver.findElement(By.name("q")).sendKeys(keyword + Keys.ENTER);

        Assert.assertTrue(driver.getTitle().contains(keyword));

    }

    @DataProvider(name = "searchData")

    public Object[][] searchData() {

        return new Object[][] { {"Selenium"}, {"TestNG"}, {"Java"}, }; }

    @AfterClass

    public void tearDown() {

        if (driver != null) {

            driver.quit();

        }

    }

}}
```