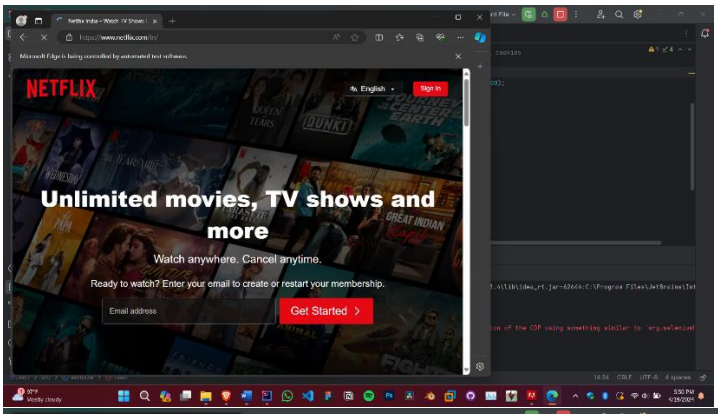
OUTPUT: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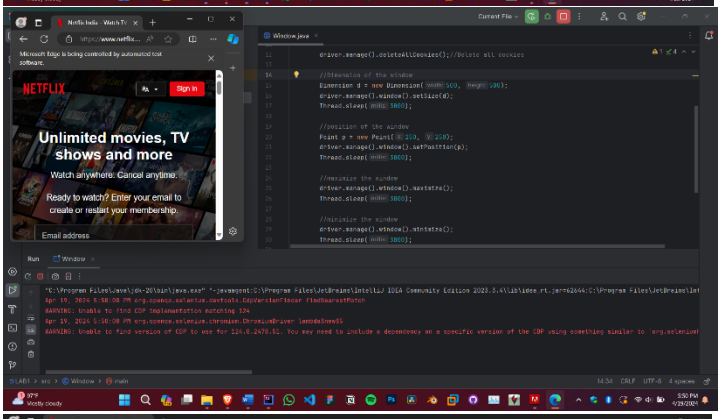
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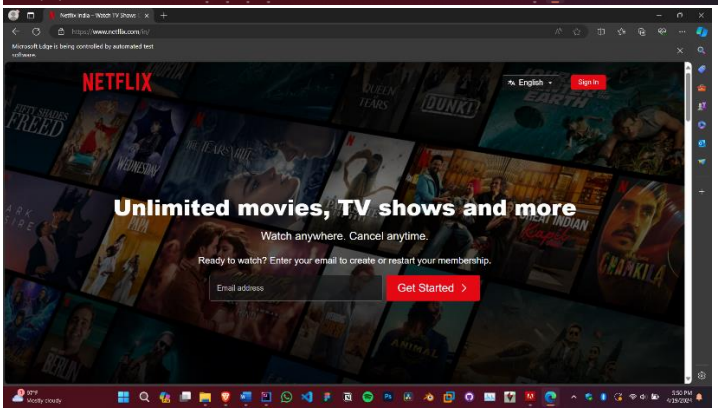
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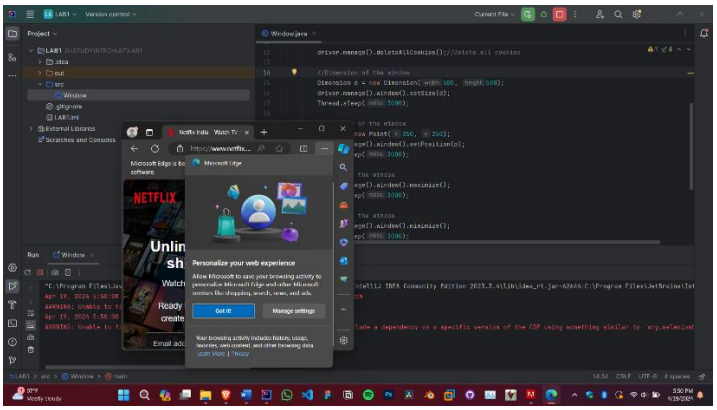

Personalize your web experience

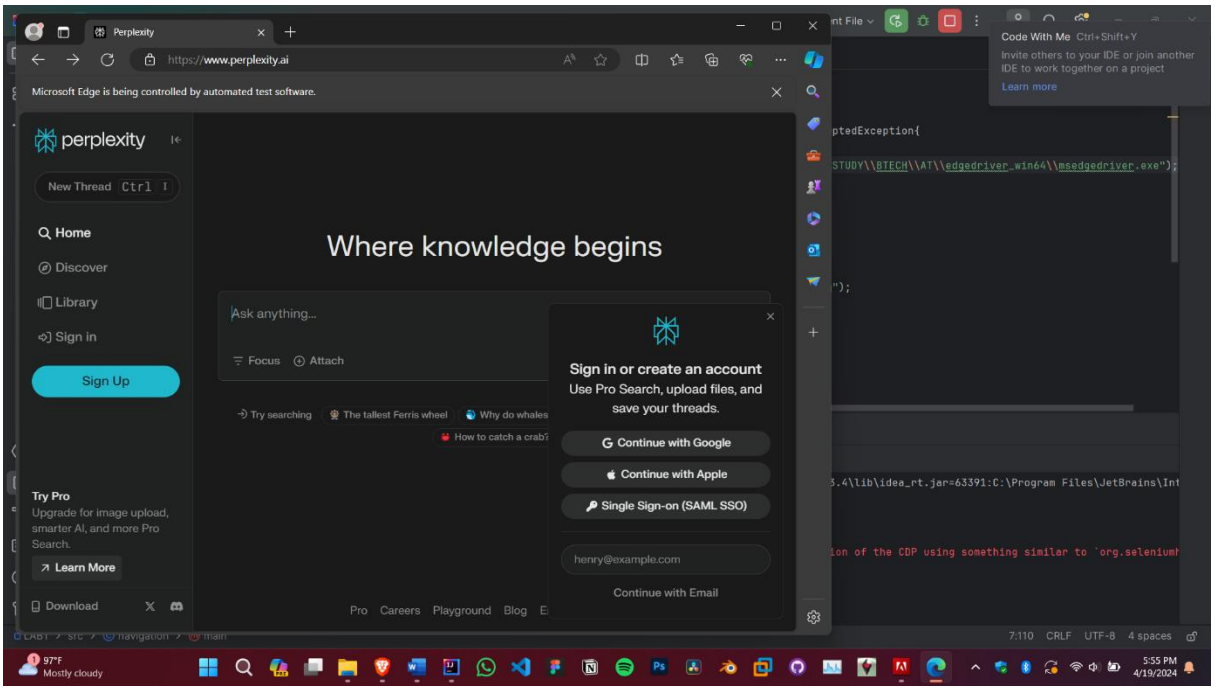
Program – 1

Aim: Write a selenium java program to demonstrate window operations.

Code:

```
import org.openqa.selenium.*;
import org.openqa.selenium.edge.EdgeDriver;
public class Window {

    public static void main(String Args[]) throws InterruptedException {

        System.setProperty("webdriver.edge.driver",
                                D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();

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

        driver.manage().deleteAllCookies();//Delete all cookies

        //Dimension of the window
        Dimension d = new Dimension(500, 500);
        driver.manage().window().setSize(d);
        Thread.sleep(3000);

        //position of the window
        Point p = new Point(250, 250);
        driver.manage().window().setPosition(p);
        Thread.sleep(3000);

        //maximize the window
        driver.manage().window().maximize();
        Thread.sleep(3000);

        //minimize the window
        driver.manage().window().minimize();
        Thread.sleep(3000);

        driver.quit();

    }

}
```

OUTPUT:


Perplexity
https://www.perplexity.ai
Microsoft Edge is being controlled by automated test software.
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New Thread Ctrl I
Home
Discover
Library
Sign in
Sign Up
Where knowledge begins
Ask anything...
Focus
Attach
Try searching
The tallest Ferris wheel
Why do whales
How to catch a crab
Sign in or create an account
Use Pro Search, upload files, and save your threads.
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Continue with Apple
Single Sign-on (SAML SSO)
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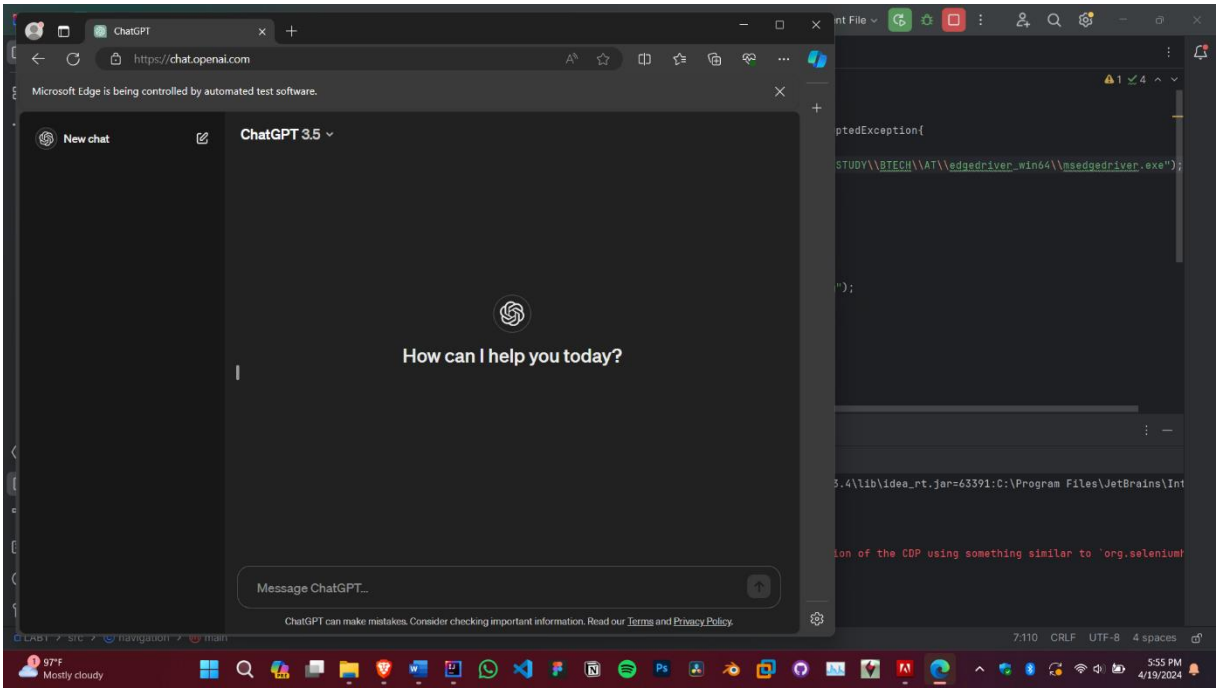
ChatGPT
https://chat.openai.com
Microsoft Edge is being controlled by automated test software.
New chat
ChatGPT 3.5
How can I help you today?
Message ChatGPT...
ChatGPT can make mistakes. Consider checking important information. Read our Terms and Privacy Policy.
97°F
Mostly cloudy
5:55 PM
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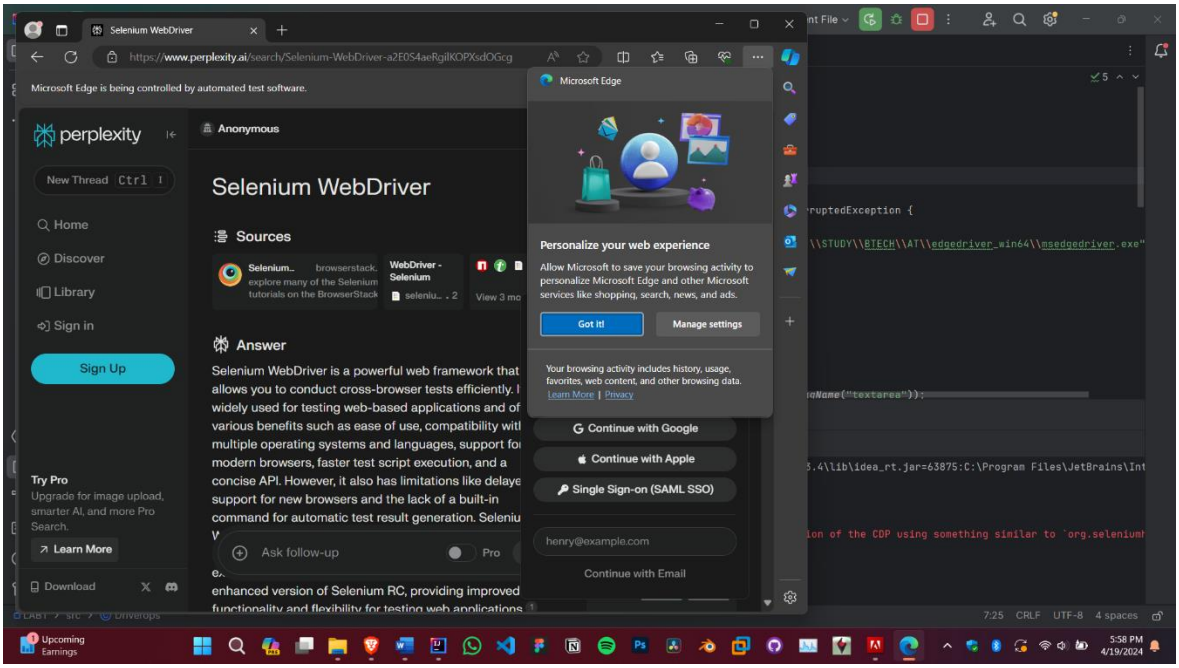
Program – 2

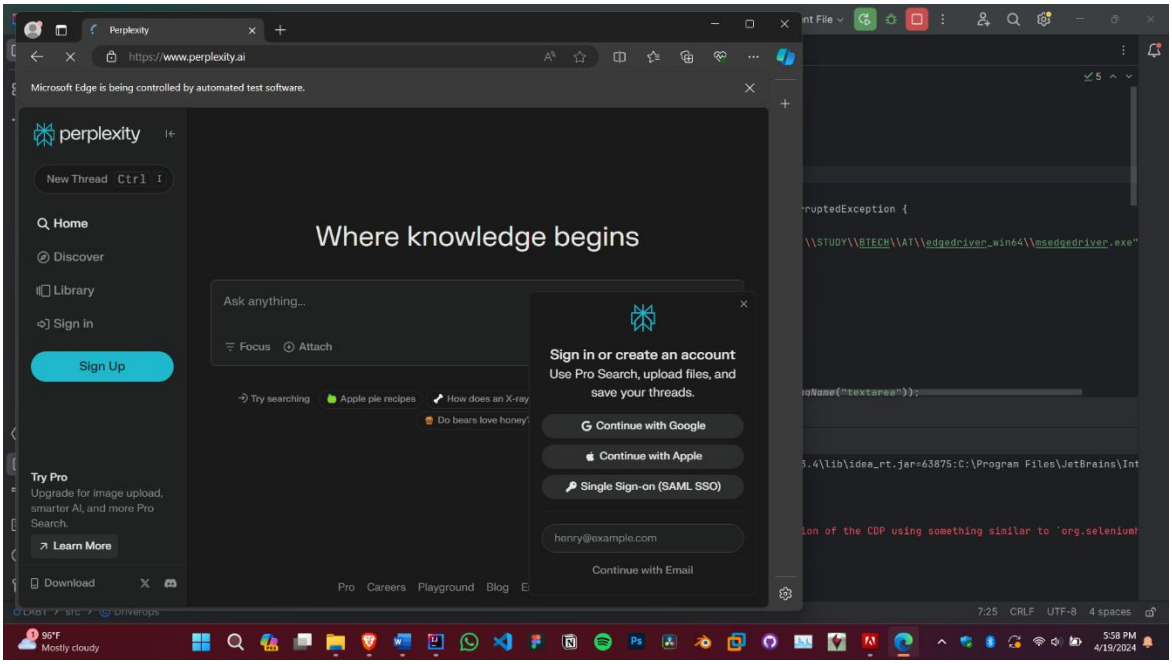
Aim: Write a selenium java program to demonstrate navigation.

Code:

```
import org.openqa.selenium.*;
import org.openqa.selenium.edge.EdgeDriver;

public class navigation{
   public static void main(String Args[]) throws InterruptedException{

      System.setProperty("webdriver.edge.driver",
                              "D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
      WebDriver driver = new EdgeDriver();

      driver.get("https://www.perplexity.ai");
      Thread.sleep(3000);

      //navigate to another site
      driver.navigate().to("https://chat.openai.com");
      Thread.sleep(3000);

      //Navigate back
      driver.navigate().back();
      Thread.sleep(3000);

      //Navigate forward
      driver.navigate().forward();
      Thread.sleep(3000);

      //Refresh
      driver.navigate().refresh();
      Thread.sleep(5000);

      driver.quit();
   }
}
```

OUTPUT:






```
Page Title: Selenium WebDriver
Current URL: https://www.perplexity.ai/search/Selenium-WebDriver-a2E0S4aeRgilKOPXsdOGcg

Process finished with exit code 0
```

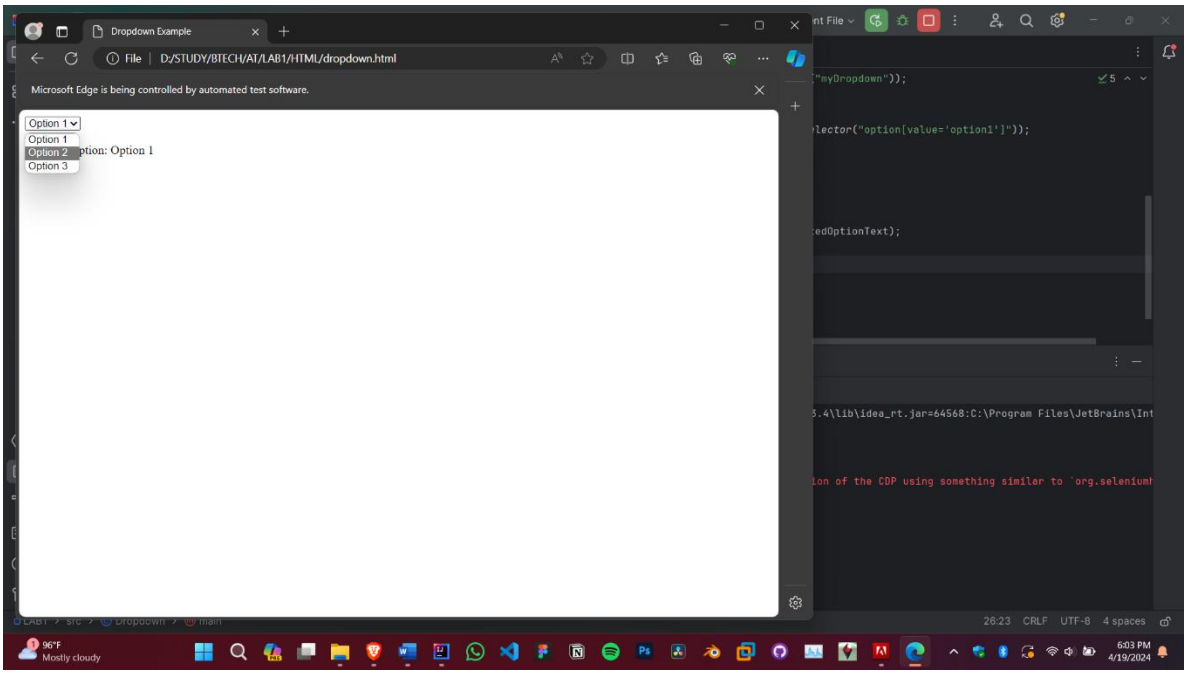
Program – 3

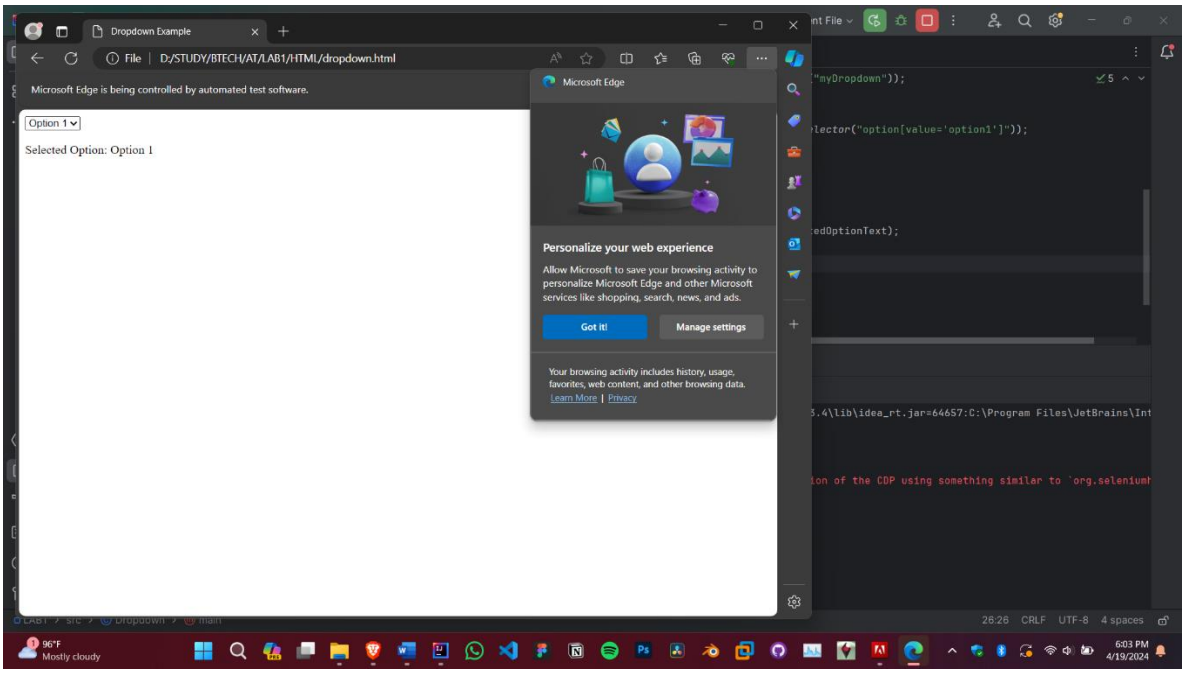
Aim: Write a selenium java program to demonstrate driver operations.

Code:

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

public class Driverops {

    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.edge.driver",
                                "D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();
        driver.get("https://www.perplexity.ai");

        WebElement searchBox = driver.findElement(By.tagName("textarea"));
        searchBox.sendKeys("Selenium WebDriver");
        searchBox.sendKeys(Keys.ENTER);

        Thread.sleep(5000);

        String pageTitle = driver.getTitle();
        System.out.println("Page Title: " + pageTitle);

        String currentUrl = driver.getCurrentUrl();
        System.out.println("Current URL: " + currentUrl);


        Thread.sleep(5000);
        driver.quit();
    }
}
```

OUTPUT:






```
Selected Option: Option 1


Process finished with exit code 0
```

Program – 4

Aim: Write a selenium java program to demonstrate dropdown or list.

HTML code:

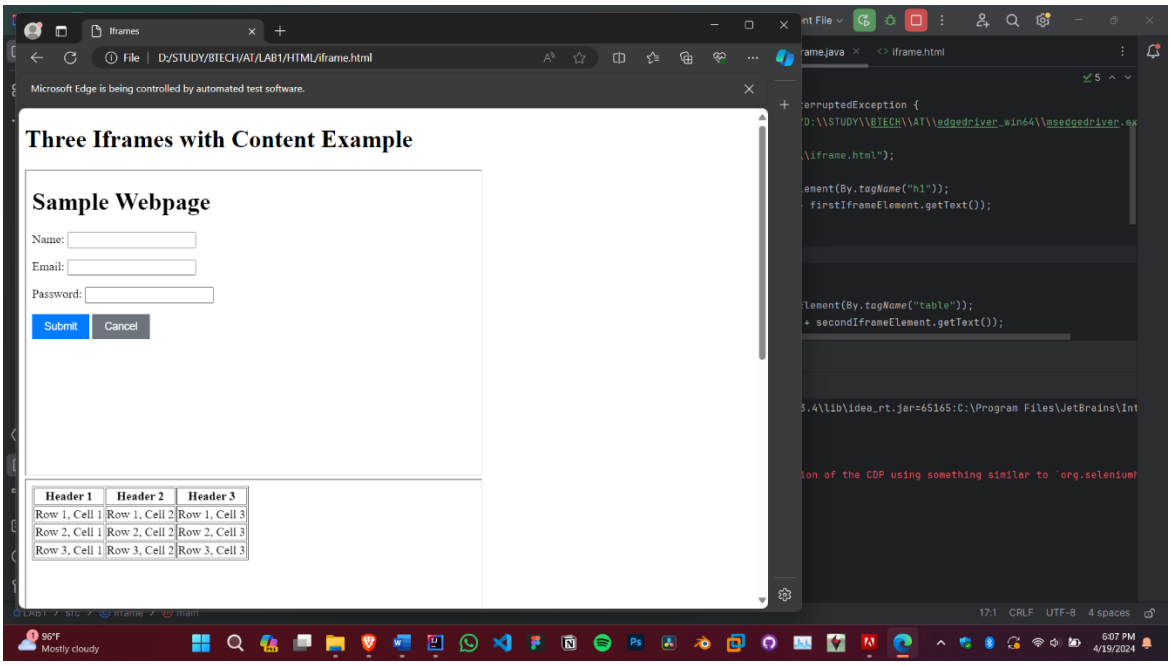
```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Dropdown Example</title>
</head>
<body>
<select id="myDropdown" onchange="showSelectedOption()">
   <option value="option1">Option 1</option>
   <option value="option2">Option 2</option>
   <option value="option3">Option 3</option>
</select>

<p id="selectedOption"></p>

<script>
   // Set the default selected option
   document.getElementById("myDropdown").value = "option2";

   // Function to display the selected option
   function showSelectedOption() {
      var dropdown = document.getElementById("myDropdown");
      var selectedOption = dropdown.options[dropdown.selectedIndex].text;
      document.getElementById("selectedOption").innerText = "Selected Option: " + selectedOption;
   }
</script>
</body>
</html>
```

Java Code:

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

public class Dropdown {
```

```
public static void main(String[] args) throws InterruptedException {

        System.setProperty("webdriver.edge.driver",
                                "D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();

        driver.get("D:\\STUDY\\BTECH\\AT\\LAB1\\HTML\\dropdown.html");

        WebElement dropdown = driver.findElement(By.id("myDropdown"));
        dropdown.click();

        WebElement option = driver.findElement(By.cssSelector("option[value='option1']"));
        option.click();

        Thread.sleep(3000);

        String selectedOptionText = option.getText();
        System.out.println("Selected Option: " + selectedOptionText);

        Thread.sleep(2000);

        driver.quit();
    }
}
```

OUTPUT:




```
First Iframe Content: Sample Webpage
Second Iframe Content: Header 1 Header 2 Header 3
Row 1, Cell 1 Row 1, Cell 2 Row 1, Cell 3
Row 2, Cell 1 Row 2, Cell 2 Row 2, Cell 3
Row 3, Cell 1 Row 3, Cell 2 Row 3, Cell 3
Third Iframe Content: Result Page

Process finished with exit code 0
```

Program – 5

Aim: Write a selenium java program to demonstrate frame and iframe.

HTML code:

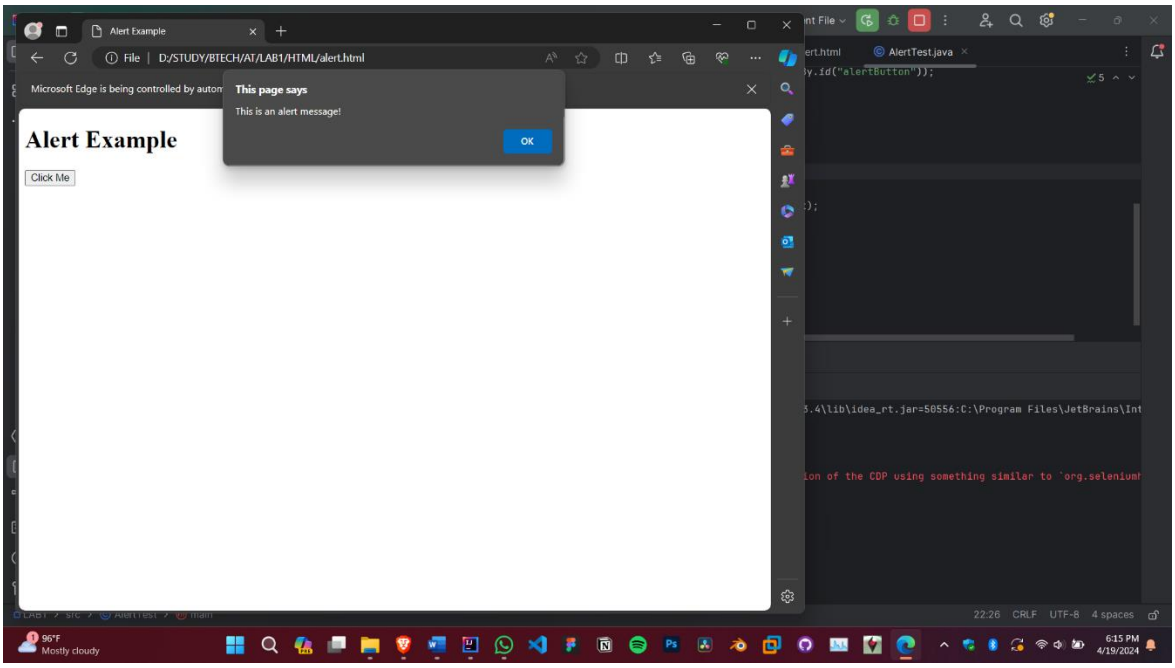
```
<!DOCTYPE html>
   <head>
      <title>Iframes</title>
   </head>
   <body>
      <h1>Three Iframes with Content Example</h1>
      <iframe src="test_page.html" width="600" height="400" title="First iframe">
      </iframe>

      <iframe src="table.html" width="600" height="400" title="Second iframe">
      </iframe>

      <iframe src="result.html" width="600" height="400" title="Third iframe">
      </iframe>
   </body>
</html>
```

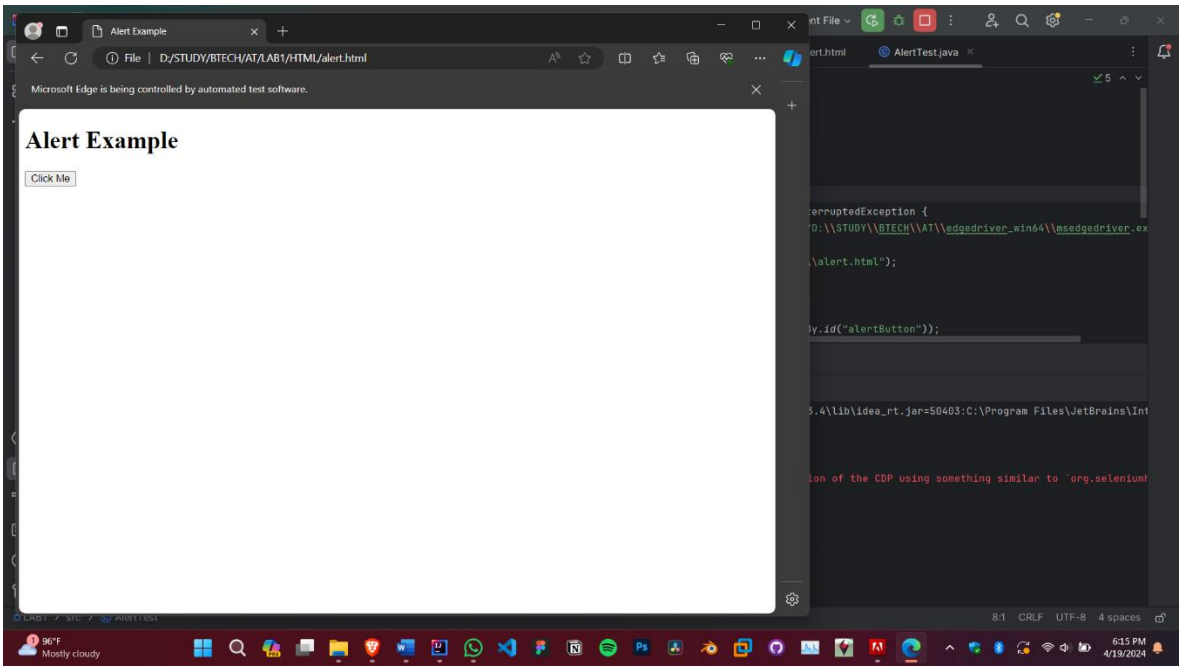
Java Code:

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

public class Iframe {

   public static void main(String[] args) throws InterruptedException {
      System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
      WebDriver driver = new EdgeDriver();
      driver.get("D:\\STUDY\\BTECH\\AT\\LAB1\\HTML\\iframe.html");
      driver.switchTo().frame(0);
      WebElement firstIframeElement = driver.findElement(By.tagName("h1"));
      System.out.println("First Iframe Content: " + firstIframeElement.getText());

      Thread.sleep(3000);
      driver.switchTo().defaultContent();
```

```
        driver.switchTo().frame(1);
        WebElement secondIframeElement = driver.findElement(By.tagName("table"));
        System.out.println("Second Iframe Content: " + secondIframeElement.getText());

        Thread.sleep(3000);

        driver.switchTo().defaultContent();
        driver.switchTo().frame(2);
        WebElement thirdIframeElement = driver.findElement(By.tagName("h1"));
        System.out.println("Third Iframe Content: " + thirdIframeElement.getText());

        Thread.sleep(3000);

        driver.quit();
    }
}
```

OUTPUT:






```
Alert Text: This is an alert message!

Process finished with exit code 0
```

Program – 6

Aim: Write a selenium java program to demonstrate alert.

HTML code:

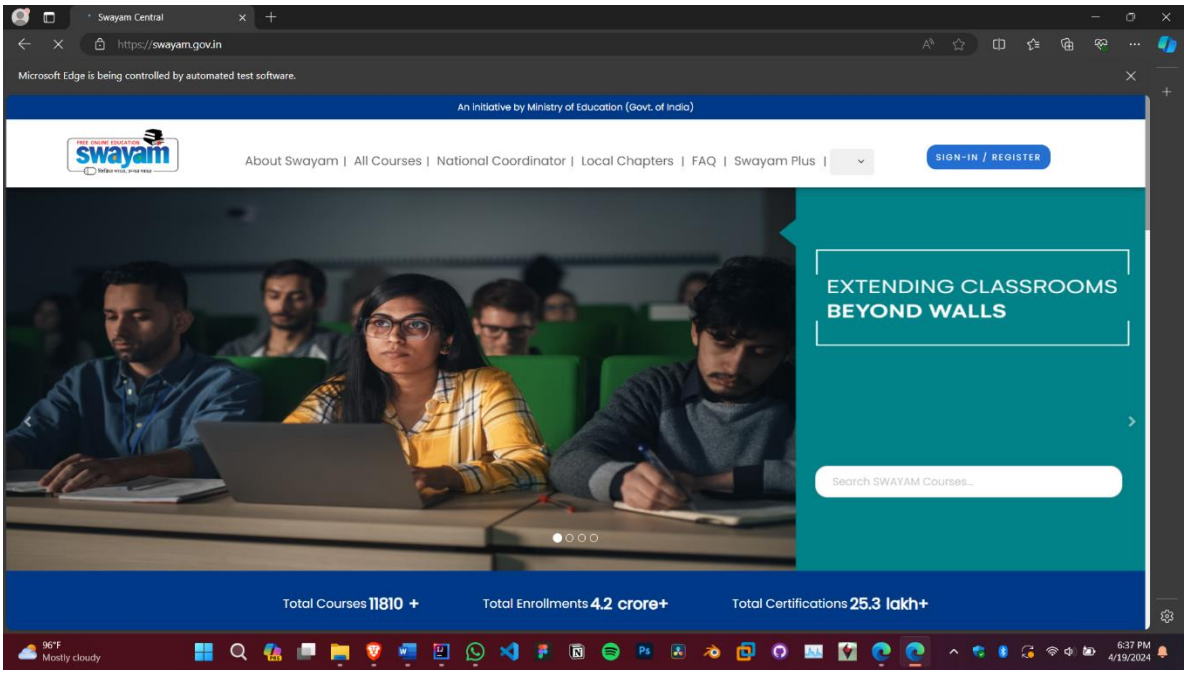
```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Alert Example</title>
</head>
<body>
<h1>Alert Example</h1>
<button id="alertButton" onclick="showAlert()">Click Me</button>

<script>
   function showAlert() {
      alert("This is an alert message!");
   }
</script>
</body>
</html>
```

Java Code:

```
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.Alert;

public class AlertTest {

   public static void main(String[] args) throws InterruptedException {
      System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
      WebDriver driver = new EdgeDriver();
      driver.get("D:\\STUDY\\BTECH\\AT\\LAB1\\HTML\\alert.html");

      Thread.sleep(3000);
```

```
        WebElement alertButton = driver.findElement(By.id("alertButton"));
        alertButton.click();

        Alert alert = driver.switchTo().alert();
        String alertText = alert.getText();

        System.out.println("Alert Text: " + alertText);
        alert.accept();
        driver.quit();
    }
}
```

OUTPUT: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An initiative by Ministry of Education (Govt. of India)
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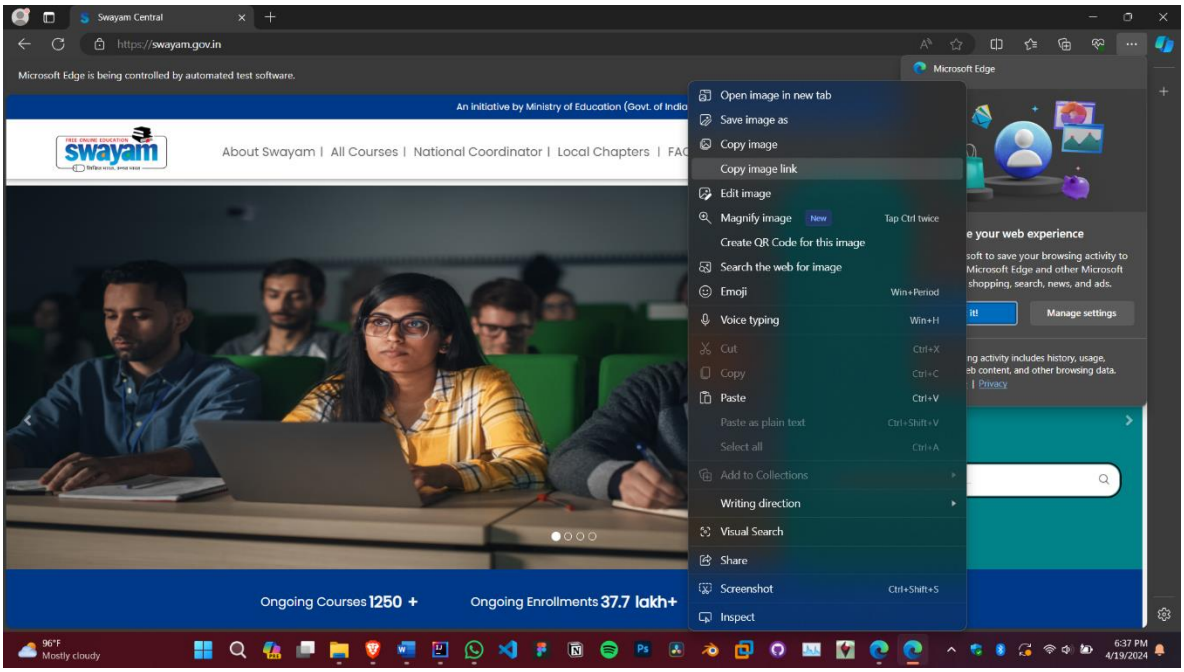
Swayam Central
https://swayam.gov.in
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Microsoft Edge
Open image in new tab
Save image as
Copy image
Copy image link
Edit image
Magnify image
Tap Ctrl twice
Create QR Code for this image
Search the web for image
Emoji
Win+Period
Voice typing
Win+H
Cut
Copy
Paste
Paste as plain text
Select all
Add to Collections
Writing direction
Visual Search
Share
Screenshot
Ctrl+Shift+S
Inspect
Ongoing Courses 1250 +
Ongoing Enrollments 37.7 lakh+
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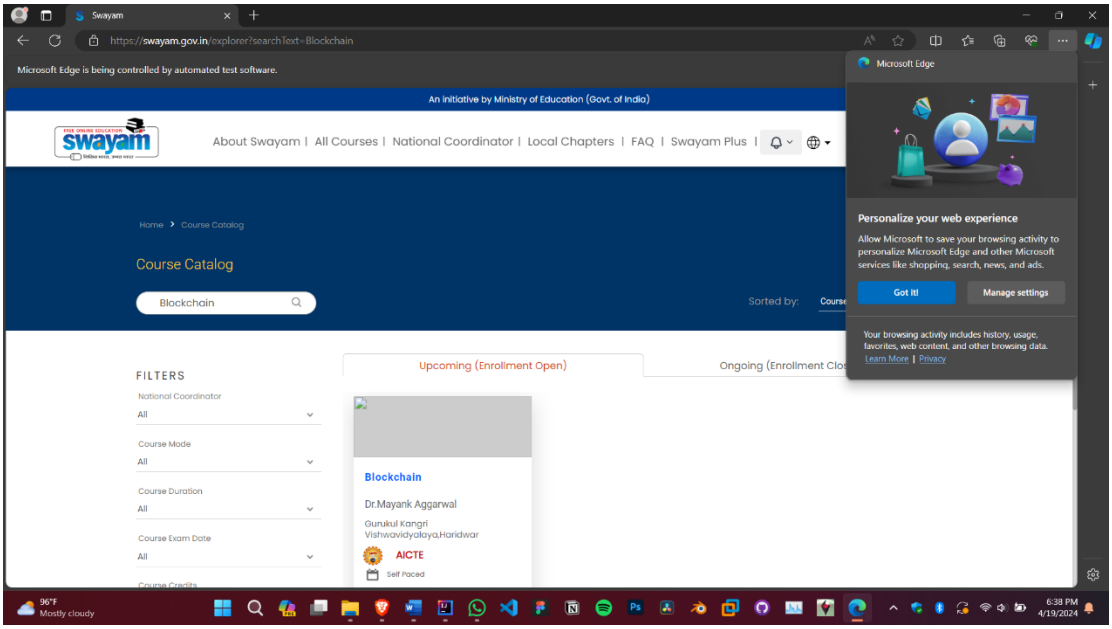
Program – 7

Aim: Write a selenium java program to demonstrate actions(Mouse and Keyboard).

Code:

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

public class ActionsTest {

    public static void main(String[] args) throws InterruptedException{
        System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();
        driver.manage().window().maximize();
        driver.get("https://swayam.gov.in/");

        WebElement element =
driver.findElement(By.xpath("/html/body/div[3]/section/div/form/div/input"));

        Actions actions = new Actions(driver);

        actions.moveToElement(element).perform();
        Thread.sleep(2000);

        actions.contextClick(element).perform();
        Thread.sleep(2000);

        actions.sendKeys("Blockchain");
        Thread.sleep(2000);

        WebElement element2 =  driver.findElement(By.xpath("//section/div/form/div/span"));
        actions.moveToElement(element2).click().perform();
        Thread.sleep(8000);

        WebElement element3 = driver.findElement(By.xpath("//div[2]/div/div[2]/div[2]/course-card-
                                                grouper/div[1]/course-cards/div/div/course-card"));
        actions.moveToElement(element3).perform();
```


Swayam
https://swayam.gov.in/explorer?searchText=Blockchain
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Personalize your web experience
Allow Microsoft to save your browsing activity to personalize Microsoft Edge and other Microsoft services like shopping, search, news, and ads.
Got it!
Manage settings
Your browsing activity includes history, usage, favorites, web content, and other browsing data.
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All
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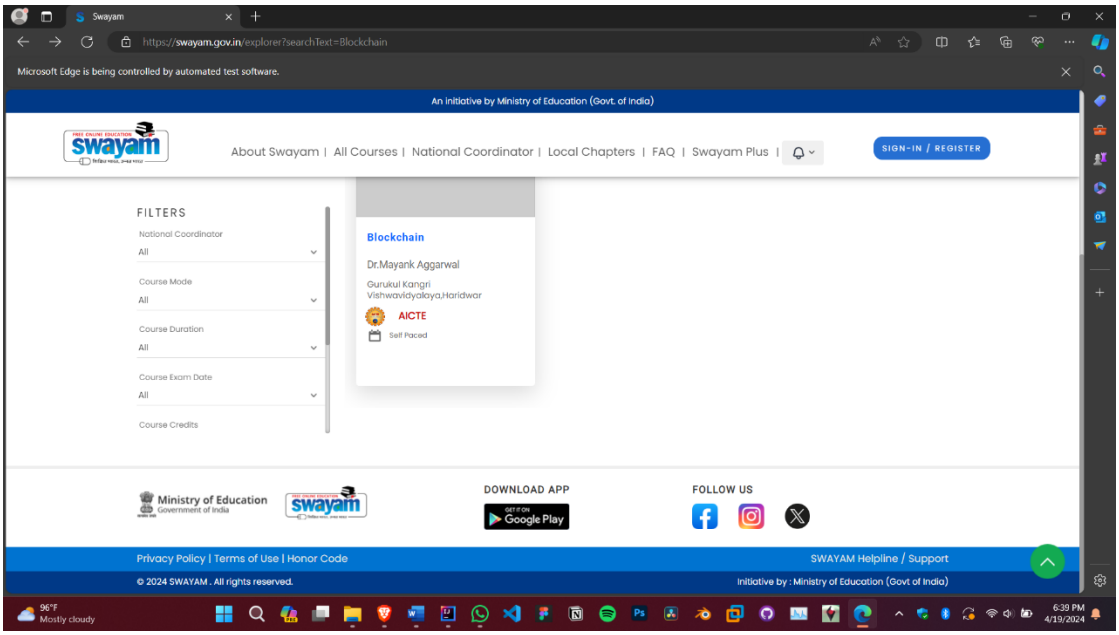
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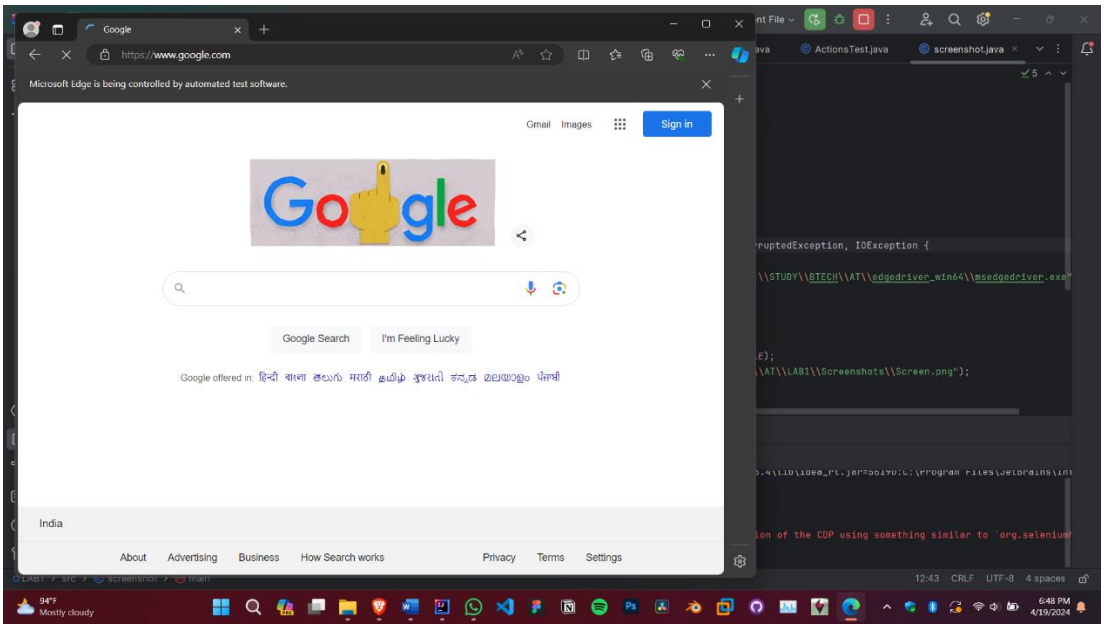
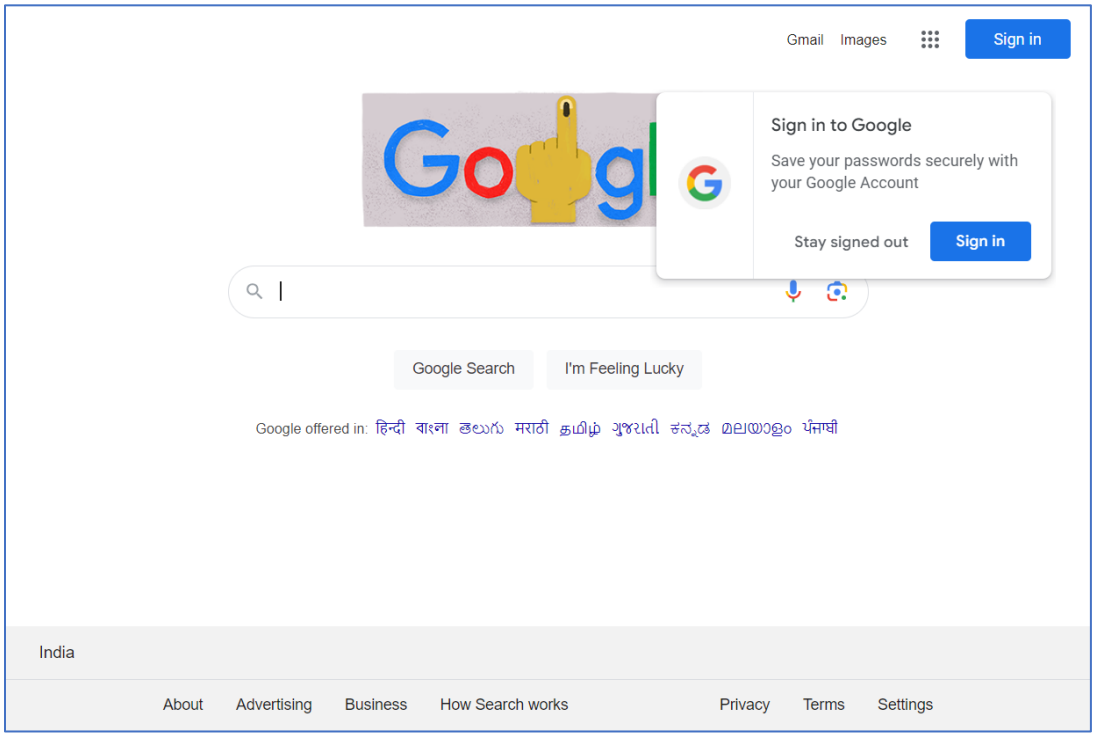
```
        Thread.sleep(2000);

        actions.keyDown(Keys.CONTROL).sendKeys(Keys.END).perform();
        Thread.sleep(2000);

        actions.sendKeys(Keys.BACK_SPACE);

        Thread.sleep(3000);

        driver.quit();
    }
}
```

OUTPUT:




```
Screenshot is captured

Process finished with exit code 0
```



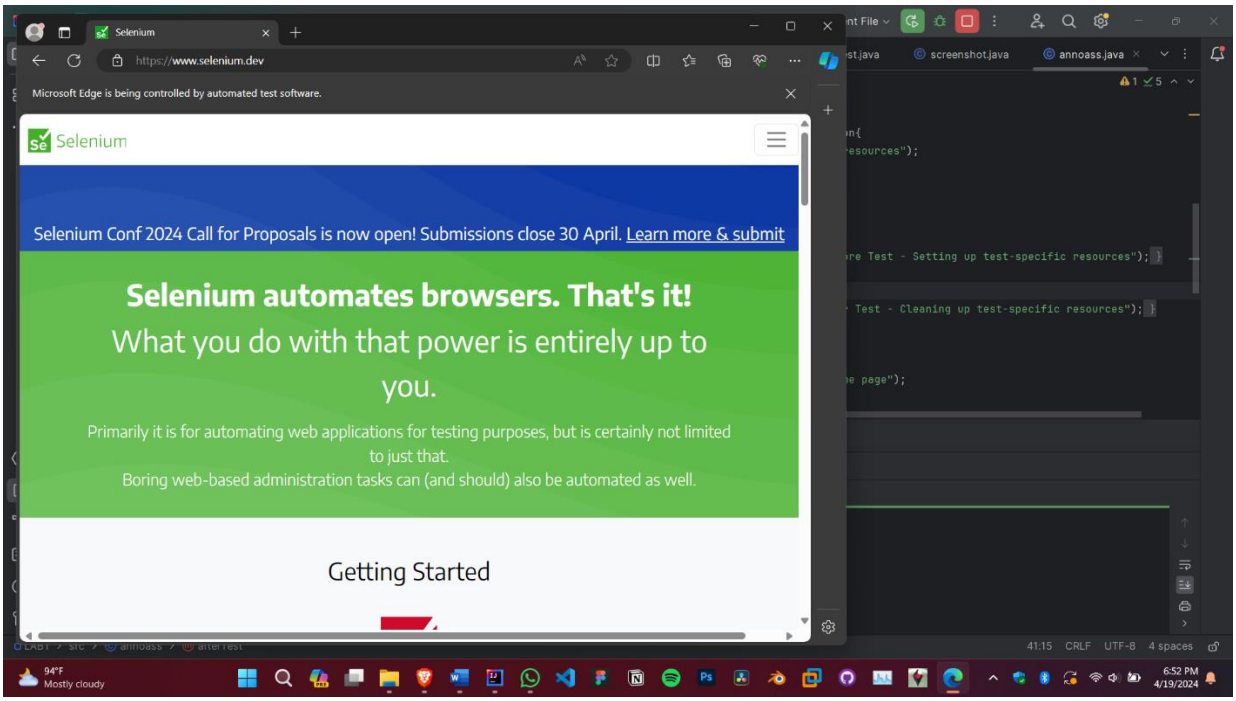
Program – 8

Aim: Write a selenium java program to demonstrate Screenshot.

Code:

```
import java.io.File;
import java.io.IOException;
import org.openqa.selenium.io.FileHandler;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

public class screenshot {

    public void sshot() throws InterruptedException, IOException {

        System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();
        driver.get("https://www.google.com/");

        TakesScreenshot tk = (TakesScreenshot)driver;
        File source = tk.getScreenshotAs(OutputType.FILE);
        File des = new File("D:\\STUDY\\BTECH\\AT\\LAB1\\Screenshots\\Screen.png");
        FileHandler.copy(source, des);

        System.out.println("Screenshot is captured");
        Thread.sleep(5000);
        driver.quit();

    }

}
```

OUTPUT:




```
Before Suite - Setting up environment variables
Before Test - Setting up test-specific resources
Before Class - Initializing resources
Test Method - Verifying home page
After Class - Cleaning up resources
After Test - Cleaning up test-specific resources
After Suite - Cleaning up after all tests

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```

Program – 9

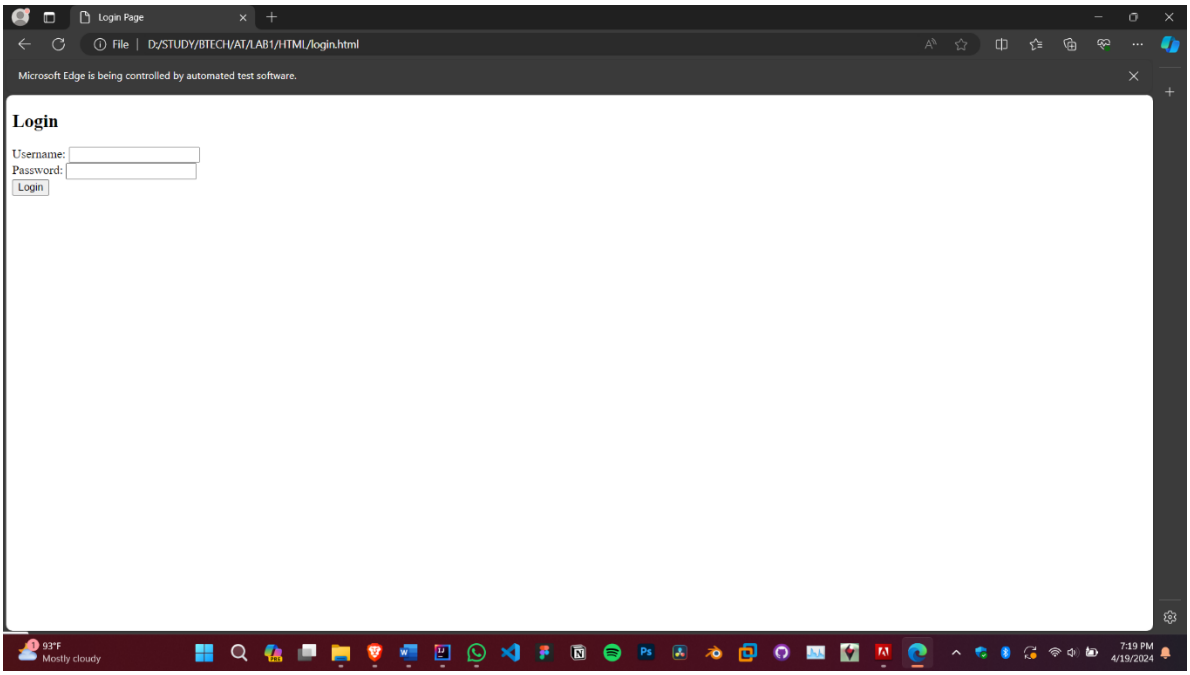
Aim: Write a selenium java program to demonstrate Testing – Assertions and Annotations.

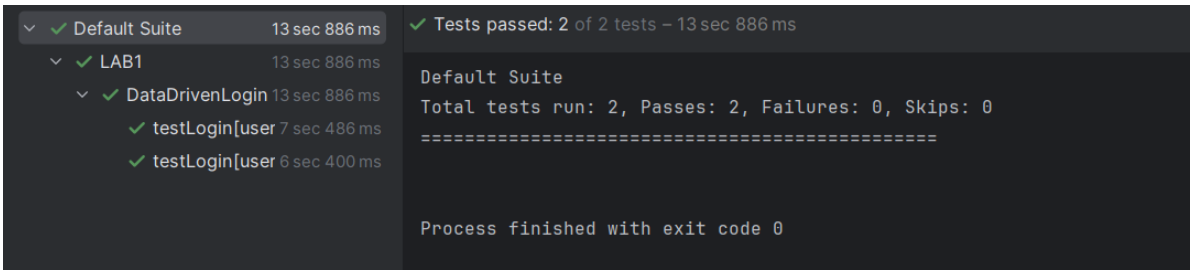
Code:

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.Assert;
import org.testng.annotations.*;

public class annoass {
   WebDriver driver;
   String baseUrl = "https://www.selenium.dev/";

   @BeforeSuite
   public void beforeSuite() {
      System.out.println("Before Suite - Setting up environment variables");
   }

   @AfterSuite
   public void afterSuite() {
      System.out.println("After Suite - Cleaning up after all tests");
   }

   @BeforeClass
   public void beforeClass() {
      System.out.println("Before Class - Initializing resources");
      System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
      driver = new EdgeDriver();
      driver.get(baseUrl);
   }

   @AfterClass
   public void afterClass() {
      System.out.println("After Class - Cleaning up resources");
      driver.quit();
   }

   @BeforeTest
   public void beforeTest() {
      System.out.println("Before Test - Setting up test-specific resources");
   }
```

```
@AfterTest
    public void afterTest() {
        System.out.println("After Test - Cleaning up test-specific resources");
    }

    @Test
    public void verifyHome() {
        System.out.println("Test Method - Verifying home page");
        String expectedTitle = "Selenium";
        String actualTitle = driver.getTitle();
        Assert.assertEquals(actualTitle, expectedTitle);
    }
}
```

OUTPUT:


Login Page
File | D:/STUDY/BTECH/AT/LAB1/HTML/login.html
Microsoft Edge is being controlled by automated test software.
Login
Username:
Password:
Login
93°F
Mostly cloudy
7:19 PM
4/19/2024


Default Suite 13 sec 886 ms
LAB1 13 sec 886 ms
DataDrivenLogin 13 sec 886 ms
testLogin[user 7 sec 486 ms
testLogin[user 6 sec 400 ms
Tests passed: 2 of 2 tests – 13 sec 886 ms
Default Suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
Process finished with exit code 0

Program – 10

Aim: Write a selenium java program to demonstrate Testing – Assertions and Annotations.

Code:

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

public class DataDrivenLoginTest {
   @Test(dataProvider = "getData")
   public void testLogin(String username, String password) throws InterruptedException {
      System.setProperty("webdriver.edge.driver",
"D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
      WebDriver driver = new EdgeDriver();
      driver.manage().window().maximize();


      driver.get("D:\\STUDY\\BTECH\\AT\\LAB1\\HTML\\login.html");
      Thread.sleep(2000);


      WebElement usernameField = driver.findElement(By.id("username"));
      WebElement passwordField = driver.findElement(By.id("password"));
      WebElement loginButton = driver.findElement(By.id("login-button"));

      usernameField.sendKeys(username);
      passwordField.sendKeys(password);
      loginButton.click();
      driver.quit();
   }

   @DataProvider
   public Object[][] getData() {
      return new Object[][] {
            {"456", "456"},
            {"123", "123"}
      };
   }
}
```