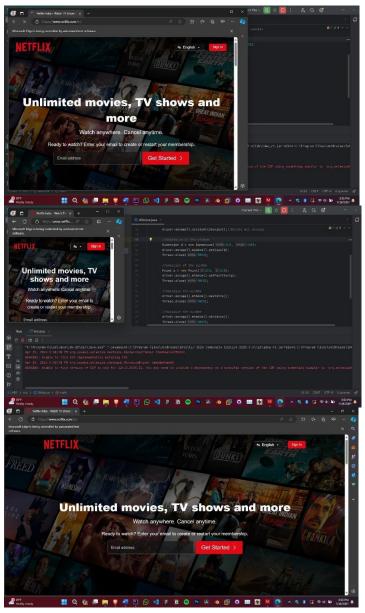
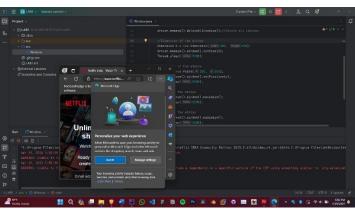
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OUTPUT:	

Aim:

Code:





OUTPUT:

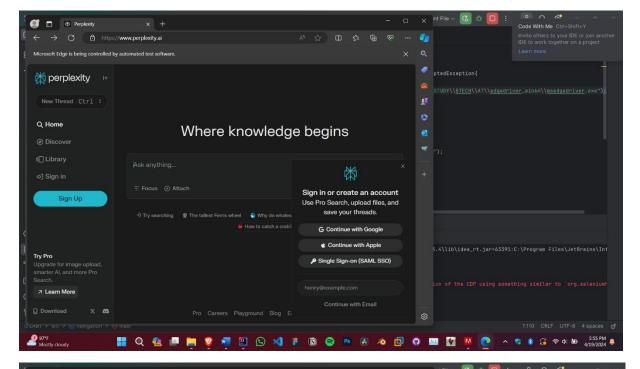
Program-1

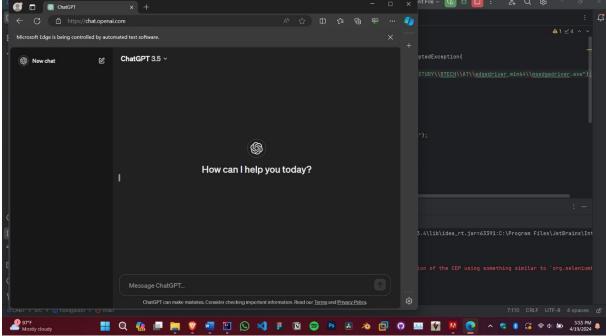
Write a selenium java program to demonstrate window operations.

```
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();
```

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Aim:	
Code:	
}	
1	
}	

OUTPUT:





Program-2

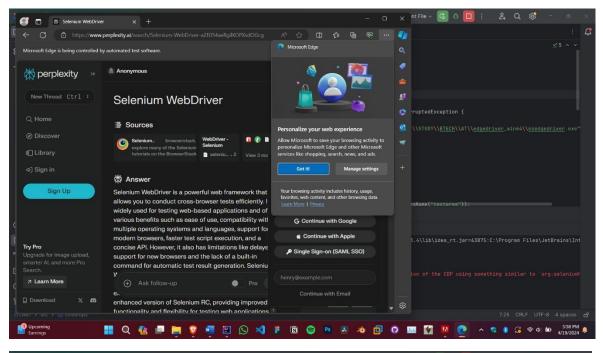
Write a selenium java program to demonstrate navigation.

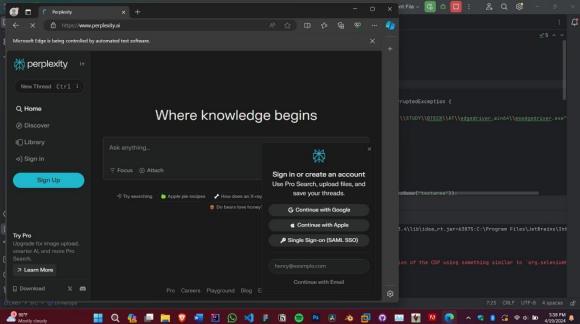
Aim:

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-a2E0S4aeRgilKOPXsd06cc

Process finished with exit code 0

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Aim:

Code:

Program-3

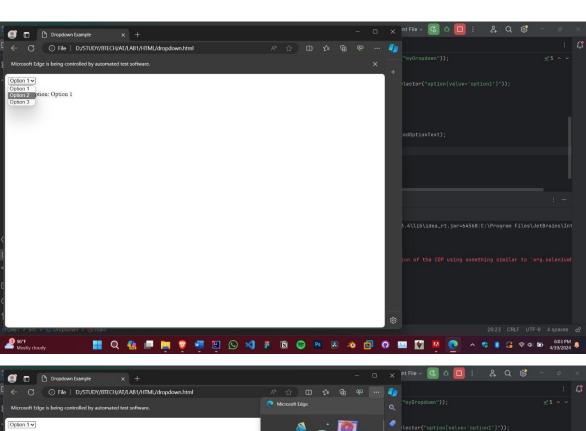
Write a selenium java program to demonstrate driver operations.

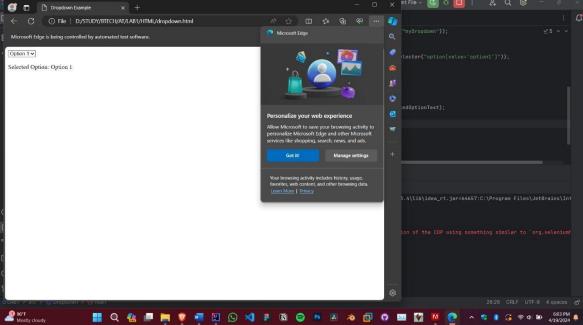
```
import org.openqa.selenium.By; import
org.openqa.selenium.Keys; import
org.openqa.selenium.WebDriver; import
org.openqa.selenium.WebElement;
import org.openga.selenium.edge.EdgeDriver;
public class Driverops {
  public static void main(String[] args) throws InterruptedException {
System.setProperty("webdriver.edge.driver",
"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();
  } }
```

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OUTPUT:	

Aim:

Code:





Selected Option: Option 1

Process finished with exit code 0

Aim:

Program-4

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>
<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;

o: L22CS199	Page No:
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();

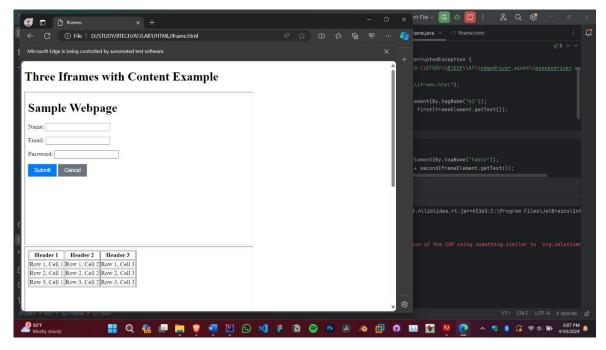
        Thread.sleep(3000);

        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>
</iframe>
```

```
</iframe>
</body> </html>
```

Java Code:

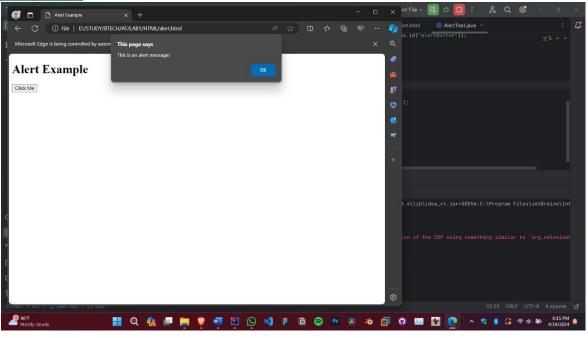
```
import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver; import
org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;

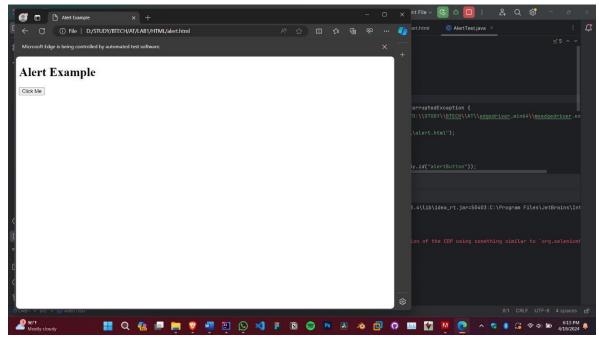
public class Iframe {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.edge.driver",
    "D:\\STUDY\\BTECH\\AT\\edgedriver_win64\\msedgedriver.exe");
        WebDriver driver = new EdgeDriver();
        driver.get("D:\\STUDY\\BTECH\\AT\\LAB1\\HTML\\iframe.html");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

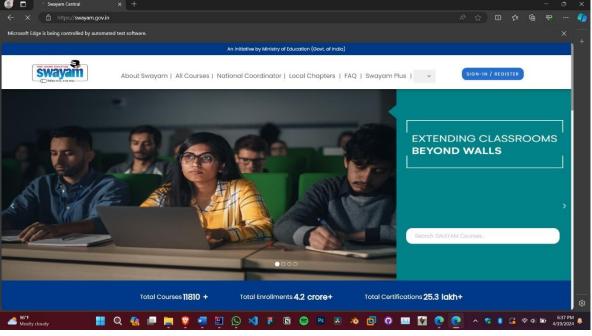
public class AlertTest {

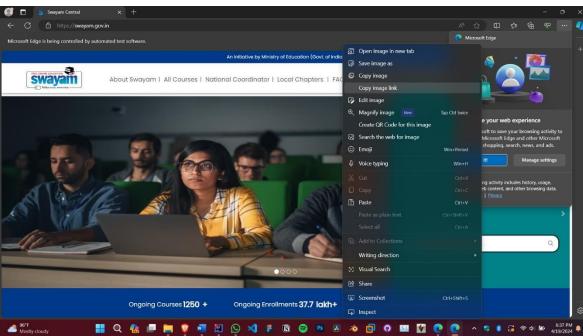
   public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.edge.driver",

"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);
```

OUTPUT:





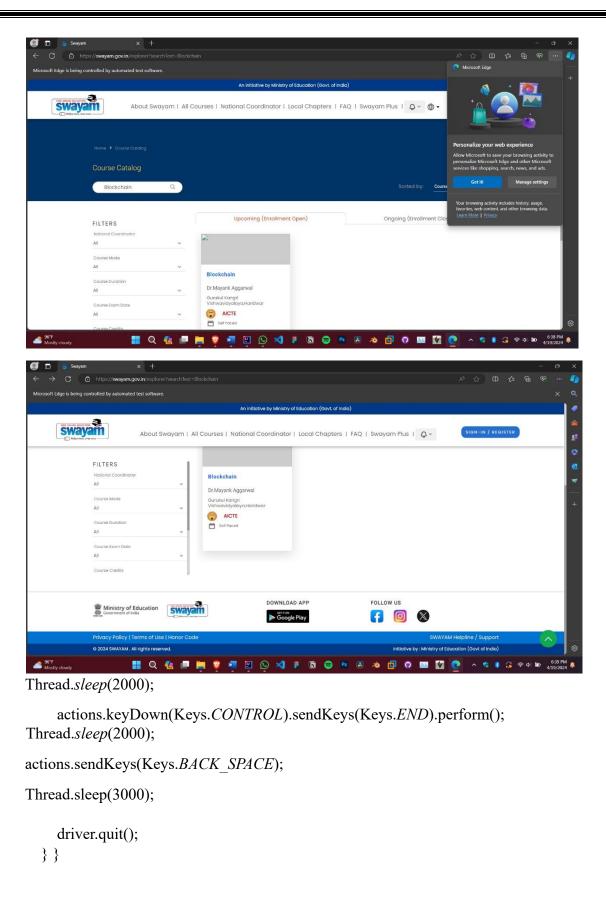
Program-7

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

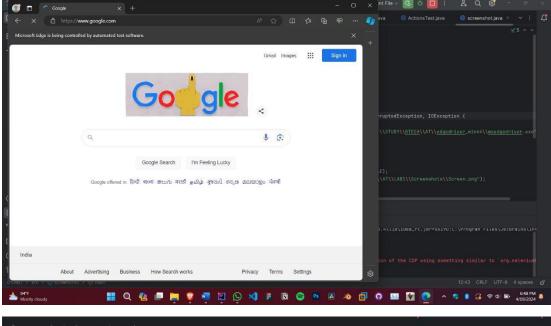
Code:

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();
```

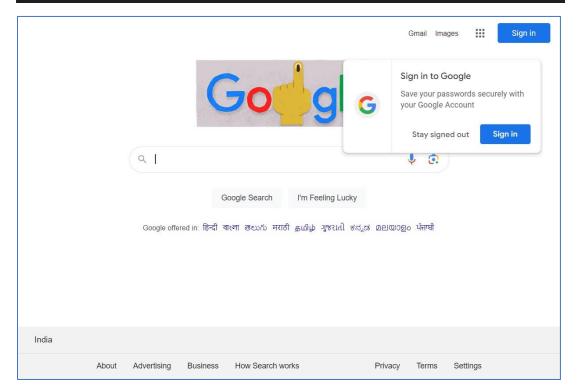


OUTPUT:



Screenshot is captured

Process finished with exit code 0



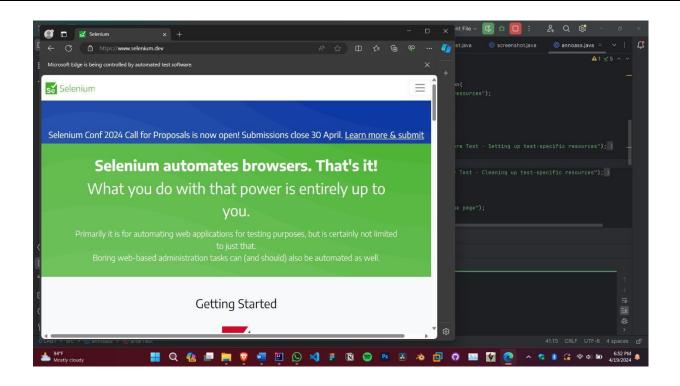
Program-8

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:



Program-9

<u>Aim:</u> 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:

```
PASSED: TestLogin("pod", "pod123")
PASSED: TestLogin("neeraj", "Emma")
PASSED: TestLogin("admin", "admin123")
   Default test
   Tests run: 1, Failures: 0, Skips: 0
_____
  Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
  ______
All Tests Failed Tests Summary
✓ ☐ Default suite (3/0/0/0) (54.172 s)

→ Default test (54.172 s)

▼ in record. Testing

▼ TestLogin (19.229 s)

           admin", "admin123" (19.229 s)

▼ TestLogin (17.098 s)

           pod","pod123" (17.098 s)

▼ TestLogin (17.845 s)

           "neeraj", "Emma" (17.845 s)
```

Program-10

<u>Aim:</u> Write a selenium java program to demonstrate Data Driven Testing.

Code:

Pom.xml:

```
<modelVersion>4.0.0</modelVersion>
 <groupId>Test/groupId>
 <artifactId>Da Dri</artifactId>
<version>0.0.1-SNAPSHOT
 <name>Data Driven</name>
<dependencies>
<dependency>
<groupId>org.testng</groupId>
<artifactId>testng</artifactId>
<version>7.4.0</version>
</dependency>
<dependency>
<groupId>io.github.bonigarcia</groupId>
<artifactId>webdrivermanager</artifactId>
<version>5.8.0
</dependency>
<dependency>
<groupId>org.seleniumhq.selenium
<artifactId>selenium-java</artifactId>
<version>4.19.1</version>
</dependency>
<dependency>
    <groupId>org.apache.poi</groupId>
    <artifactId>poi</artifactId>
    <version>4.1.1
  </dependency>
  <dependency>
    <groupId>org.apache.poi</groupId>
    <artifactId>poi-ooxml</artifactId>
    <version>4.1.1</version>
  </dependency>
  <dependency>
```

```
<groupId>org.slf4j</groupId>
 <artifactId>slf4j-api</artifactId>
  <version>1.7.5</version>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
  <artifactId>slf4j-simple</artifactId>
  <version>1.7.5</version>
</dependency>
    </dependencies>
</project>
Testing.java:
package aditya; import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver; import
org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert; import
org.testng.annotations.Test;
import io.github.bonigarcia.wdm.WebDriverManager;
public class Testing {
       @Test(dataProvider = "loginData", dataProviderClass = ExcelDataSupplier.class)
       public void TestLogin(String userName, String password) throws Exception {
              //WebDriverManager.chromedriver().setup();
WebDriver driver = new ChromeDriver();
              driver.manage().window().maximize();
              driver.get("https://github.com/login");
driver.findElement(By.name("login")).sendKeys(userName);
driver.findElement(By.name("password")).sendKeys(password);
              driver.findElement(By.name("commit")).click();
              Thread.sleep(5000);
              driver.quit();
}
```

ExcelDataSupplier.java:

```
package aditya; import
java.io.File; import
java.io.FileInputStream;
import java.util.Arrays;
import org.apache.poi.ss.usermodel.DataFormatter;
import org.apache.poi.xssf.usermodel.XSSFSheet; import
org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.testng.annotations.DataProvider;
public class ExcelDataSupplier {
       @DataProvider(name="loginData") public
String[][] getData() throws Exception {
              File excelFile = new File("./src/test/resources/Test.xlsx");
              FileInputStream fis = new FileInputStream(excelFile);
              XSSFWorkbook workbook = new XSSFWorkbook(fis);
       XSSFSheet sheet = workbook.getSheet("Sheet1");
noOfRows = sheet.getPhysicalNumberOfRows();
              int noOfColumns = sheet.getRow(0).getLastCellNum();
              String[][] data = new String[noOfRows-1][noOfColumns];
       for (int i = 0; i < noOfRows-1; i++) {
                                                                 for
(int j = 0; j < \text{noOfColumns}; j++) {
DataFormatter df = new DataFormatter();
                             data[i][j] = df.formatCellValue(sheet.getRow(i+1).getCell(j));
              workbook.close();
              fis.close();
              for (String[] dataArr : data) {
                     System.out.println(Arrays.toString(dataArr));
              return data;
```