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Course Code and Name: 2CSDE80 Software Testing & Quality Assurance

Practical No: 5

AIM : To study and perform sample tests using Selenium Testing tool for testing web-based applications.
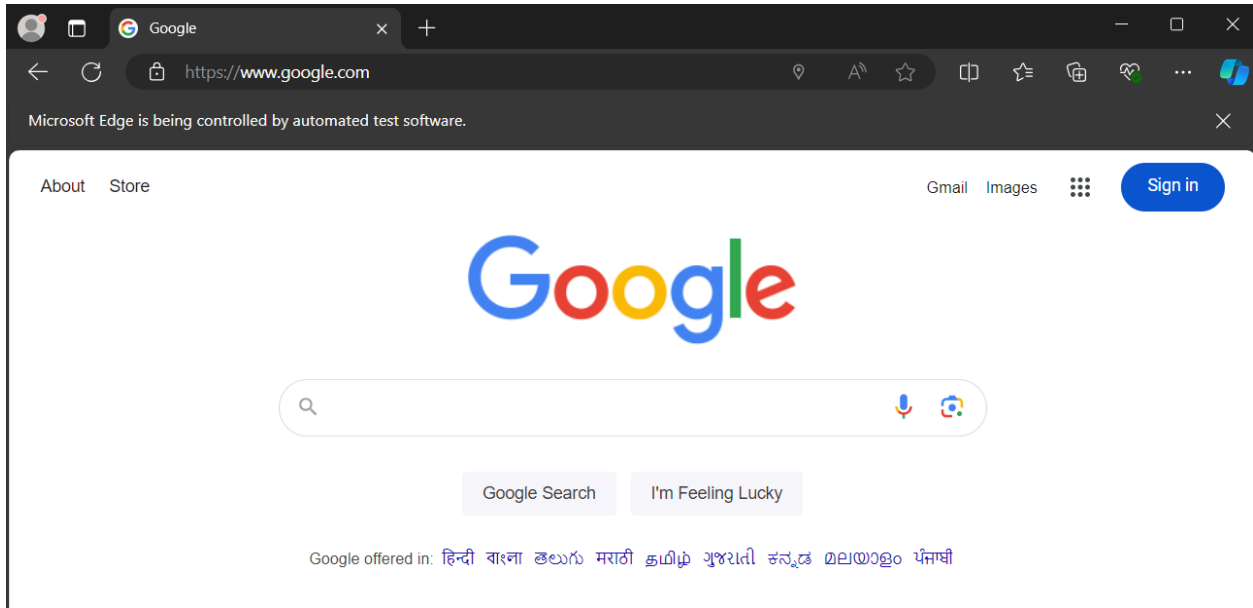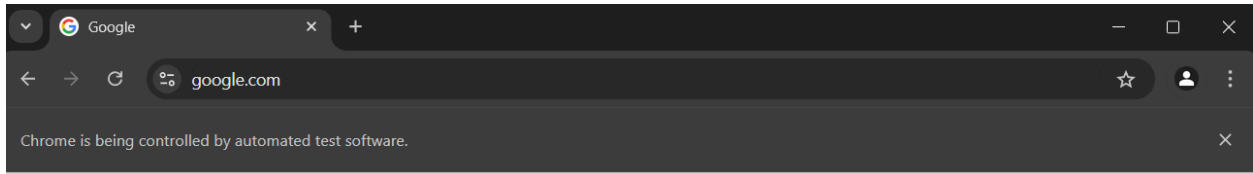
demo.java

```java
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
public class Demo {
        public static void main(String[] args) {
                System.setProperty("webdriver.chrome.driver",
"C:\\browserdrivers\\chromedriver-win64\\chromedriver.exe");
                ChromeDriver driver1 = new ChromeDriver();

                System.setProperty("webdriver.edge.driver", "C:\\browserdrivers\\msedgedriver.exe");
                EdgeDriver driver2 = new EdgeDriver();
                driver1.get("http://www.google.com");
                driver2.get("http://www.google.com");
        }
}
```

This code initializes two web browsers—Chrome and Edge—using Selenium WebDriver. It sets the system properties for the Chrome and Edge drivers, then opens the Google homepage in both browsers.

Output:

LoginTest.java

```java
package ui;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class LoginTest {
  public static void main(String[] args) {

    WebDriver driver = new ChromeDriver();

    driver.get("https://practicetestautomation.com/practice-test-login/");

    driver.findElement(By.id("username")).sendKeys("student");
    driver.findElement(By.id("password")).sendKeys("Password123");

    driver.findElement(By.id("submit")).click();

    String expectedUrl = "https://practicetestautomation.com/logged-in-successfully/";
    String actualUrl = driver.getCurrentUrl();

    if (actualUrl.equals(expectedUrl)) {
      System.out.println("Login Successful");
    } else {
      System.out.println("Login Failed");
    }
    try {
      Thread.sleep(5000);
    } catch (InterruptedException e) {
      e.printStackTrace();
    }
    driver.quit();

  }
}
```
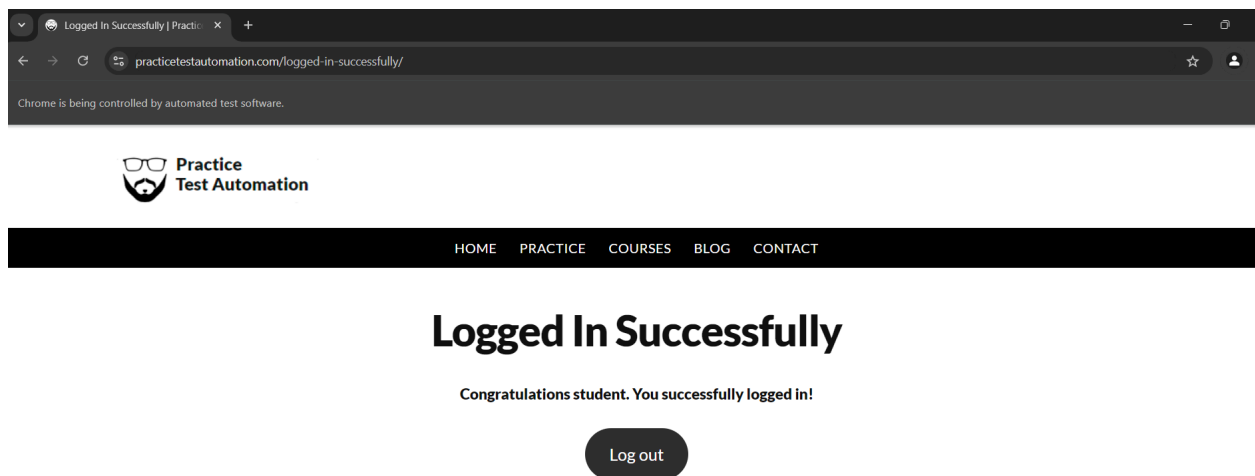
This code performs an automated login test using Selenium WebDriver. It opens a browser, navigates to a login page, enters credentials, clicks the submit button, and checks if the login was successful by comparing the current URL with the expected post-login URL.

Output

WebPageClickTest.java

```java
package ui;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class WebPageClickTest {
  public static void main(String[] args) {

    WebDriver driver = new ChromeDriver();

    driver.get("https://practicetestautomation.com/practice-test-login/");

    driver.findElement(By.id("username")).sendKeys("student");
    driver.findElement(By.id("password")).sendKeys("Password123");
    driver.findElement(By.id("submit")).click();

    try {
        Thread.sleep(3000);
    } catch (InterruptedException e) {
        e.printStackTrace();
    }
    WebElement clickableElement =
driver.findElement(By.xpath("//*[@id=\"loop-container\"]/div/article/div[2]/div/div/div/a"));
    clickableElement.click();
    String localHtmlPath = "D:\\7th_Semester\\STQA\\index.html";

    driver.get(localHtmlPath);
```

```
    try {
        Thread.sleep(30000);
    } catch (InterruptedException e) {
        e.printStackTrace();
    }
    driver.quit();
  }
}
```

Output: