



MIT ART DESIGN & TECHNOLOGY UNIVERSITY

MIT College of Management (MITCOM), Pune

PROGRAMME: MASTER OF COMPUTER APPLICATION (MCA DS)

CERTIFICATE

This is to certify the		has submitted a Practical Report or ADT University, Pune for the partia
fulfillment of Master in year 2024-25.		a Science) submitted during the academic
PRN No. <u>ADT23MGTM(</u>	0934 MCA Year. II MCA Sem	– Four
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External Examiner 1	_	f Examiners:
Internal Examine	r Sign of	f Examiners:
2.		

MIT ART DESIGN & TECHNOLOGY UNIVERSITY

MIT College of Management (MITCOM), Pune

Name: - Div: - MCA-DS Div B

PRN: -

Sr. No.	Practical Title	Date of Completion	Faculty Sign
1	Set up Selenium WebDriver with Java: Install JDK, IDE, and configure Selenium.		
2	Google Search Functionality: Write a script to search for a term on Google using Selenium WebDriver methods.		
3	Handling Web Elements: Automate web methods and web operational methods.		
4	Handling Web Elements: Automate web locators using CSS selector methods.		
5	Handling Web Elements: Automate WebDriver wait methods with multiple browsers.		
6	Handling Web Elements: Automate checkbox, confirmation buttons, and prompt alert messages.		
7	Handling Web Elements: Automate dropdown selection and radio button interaction.		
8	Handling Frames: Automate frames, iframes, and nested frames.		
9	Alerts and Popups: Interact with simple, confirmation, and prompt alerts using Selenium.		
10	Form Submission: Automate form filling and submission using Selenium.		
11	Browser Compatibility Testing: Execute the same Selenium test across different browsers.		
12	Drag and Drop Web Elements: Automate drag and drop functionality using Selenium.		
13	Screenshots and Ad Blocking: Automate taking screenshots and block ads using Selenium tools.		
14	Web Table Interaction: Open a web table from a URL and automate operations on it.		
15	TestNG Framework: Implement automation testing using TestNG and create a structured test suite.		

1.Set up Selenium WebDriver with Java: Install JDK, IDE, and configure Selenium.

```
Code:
```

```
package Programs;
```

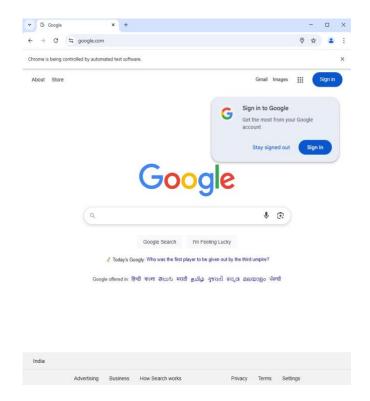
import org.openqa.selenium.WebDriver; import

 $org. open qa. selenium. chrome. Chrome Driv\ er;$

public class Program { public static void main(String[] args) {

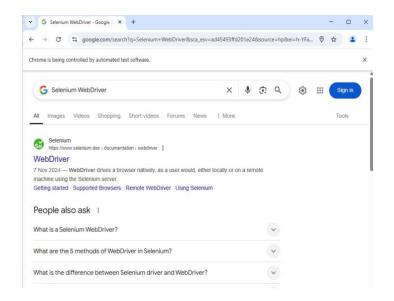
System.setProperty("webdriver.chrome.dr iver", "D:\\programs\\chromedriver-win64\\chromedriver.exe"); // Updated path

```
WebDriver cd = new ChromeDriver();
cd.get("http://www.google.com");
}
```



2 Write a Java Selenium script that to automate for Google Search Functionality: Write a script to search for a term on Google, handle all webdriver methods.

```
searchBox.sendKeys("Selenium
                                                       WebDriver");
                                                                         searchBox.submit();
Code:
                                                            try {
package Programs; import
                                                              Thread.sleep(3000); // wait 3 seconds
org.openqa.selenium.By; import
                                                            } catch (InterruptedException e) {
org.openqa.selenium.WebDriver;
                                                              e.printStackTrace();
import org.openqa.selenium.WebElement;
                                                            }
import org.openqa.selenium.chrome.ChromeDriv
er; public class GoogleSearch{ public static
                                                            System.out.println("Page Title: " +
                                                        cd.getTitle());
void main(String[] args) {
System.setProperty("webdriver.chrome.dri ver",
                                                            // Don't close the browser
                                                        immediately
"D:\\programs\\chromedriverwin64\\chromedriv
er.exe");
            WebDriver cd = new
                                                           // cd.quit(); // <-- Commented out</pre>
ChromeDriver();
                                                          }
cd.manage().window().maximize();
                                                       }//WhatUP MCA
cd.get("https://www.google.com");
    WebElement searchBox =
cd.findElement(By.name("q"));
```



```
// Create WebDriver instance
WebDriver driver = new ChromeDriver();

// Maximize browser window
driver.manage().window().maximize();

// === Web Operational Methods ===
driver.get("https://demoqa.com/textbox"); //
```

3 Write a Java Selenium script that to automate for Handling Web Elements:to Automate web methods and web operational methods.

Code : package

Programs;

import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver; import
org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriv
er;

public class Elements { public static void main(String[] args) {

// Set path to ChromeDriver

System.setProperty("webdriver.chrome.dr iver", "D:\\programs\\chromedriverwin64\\chromedriver.exe");

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

Open demo site

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

// === Web Element Methods ===

// 1. Find and fill the Full Name input field

WebElement fullName =
driver.findElement(By.id("userName"));

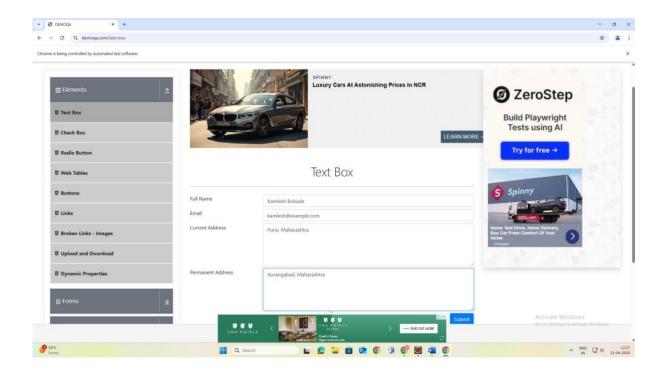
fullName.sendKeys("Kamlesh Bobade");

// 2. Email field

WebElement email = driver.findElement(By.id("userEmail"));

email.sendKeys("kamlesh@example.com"
);

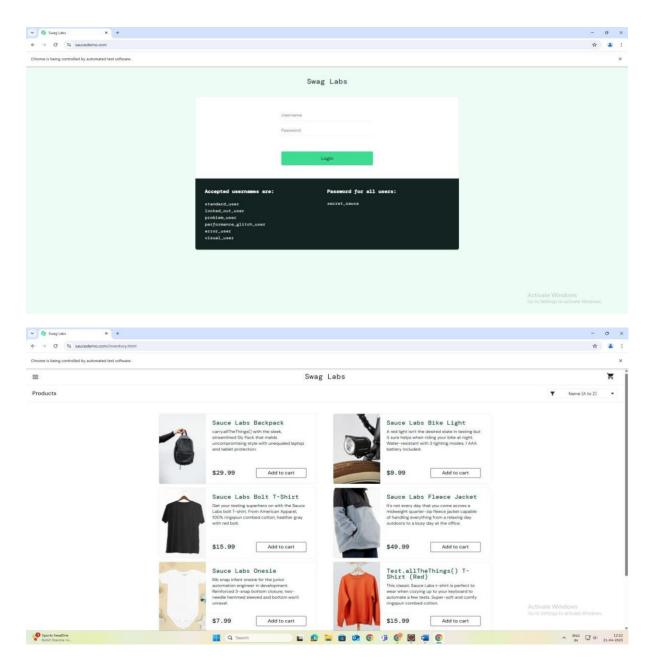
```
Thread.sleep(3000);
                                                                                         } catch
    // 3. Current Address field
                                                          (InterruptedException e) {
    WebElement currentAddress =
                                                                e.printStackTrace();
driver.findElement(By.id("currentAddress"
                                                              }
));
    currentAddress.sendKeys("Pune,
                                                              // 7. Navigate example
Maharashtra");
                                                         driver.navigate().to("https://www.googl
    // 4. Permanent Address field
                                                         e.c om");
    WebElement permanentAddress =
                                                              System.out.println("Navigated to
driver.findElement(By.id("permanentAddr ess"));
                                                         Google");
permanentAddress.sendKeys("Aurangaba d,
                                                              // Wait & Navigate back
Maharashtra");
                                                              try {
                                                                Thread.sleep(2000);
    // 5. Check visibility
                                                         } catch (InterruptedException
    if (fullName.isDisplayed() &&
fullName.isEnabled()) {
                                                         e) {
                                                                e.printStackTrace();
      System.out.println("Full Name field is
visible and enabled.");
                                                              }
    }
                                                              driver.navigate().back();
    // 6. Click the Submit button
                                                              System.out.println("Navigated Back");
    WebElement submitButton =
driver.findElement(By.id("submit"));
                                                              // Wait & Navigate forward
submitButton.click();
                                                         driver.navigate().forward();
                                                              System.out.println("Navigated
    // Pause for visual
                                                          Forward");
    try {
```



4 Write a Java Selenium script that to automate for Handling Web Elements:to Automate web Locators using css selectors methods.

```
Code: package
                                                    System.out.println(" Waiting 10
                                                seconds on login page...");
Programs;
                                                    try {
                                                      Thread.sleep(10000); // 10 seconds
import org.openqa.selenium.By; import
                                                } catch (InterruptedException e) {
org.openqa.selenium.WebDriver; import
                                                      e.printStackTrace();
org.openqa.selenium.WebElement;
                                                    }
import
org.openqa.selenium.chrome.ChromeDriv
er; public class Program4 { public
                                                    // Step 2: Login using CSS Selectors
static void main(String[] args) {
                                                    WebElement username =
                                                driver.findElement(By.cssSelector("input#u
    // Set ChromeDriver path
                                                ser-name"));
                                                    WebElement password =
System.setProperty("webdriver.chrome.dr
                                                driver.findElement(By.cssSelector("input#p
iver",
                                                assword"));
"D:\\programs\\chromedriverwin64\\chro
medriver.exe");
                                                    WebElement loginBtn =
                                                driver.findElement(By.cssSelector("input#l
    // Launch browser
                                                ogin-button"));
    WebDriver driver = new
ChromeDriver();
driver.manage().window().maximize();
                                                username.sendKeys("standard_user");
                                                password.sendKeys("secret sauce");
    // Step 1: Open saucedemo.com
                                                    loginBtn.click();
driver.get("https://www.saucedemo.com/
");
                                                    // Step 3: Wait 1 minute after login
```

```
System.out.println(" Logged in
                                                      try {
successfully.");
                                                         Thread.sleep(60000); // 60 seconds
    System.out.println(" Waiting 1
                                                  = 1 minute
minute before closing...");
                                                      } catch (InterruptedException e) {
                                                       System.out.println("
      e.printStackTrace();
                                                                                Browser
                                                  closed.");
                                                    }
    // Step 4: Close browser
                                                  }
    driver.quit();
```



5 Write a Java Selenium script that to automate for Handling Web Elements:to Automate web driver wait methods with multiple browser.

Code:

package Programs;

import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import

org.openqa.selenium.chrome.ChromeDriv er;

import

org.openqa.selenium.support.ui.Expected Conditions;

import

org.openqa.selenium.support.ui.WebDrive rWait; **import** java.time.Duration;

public class Chrome { public static void main(String[] args) {

// Set ChromeDriver path

System.setProperty("webdriver.chrome.dri ver",
"D:\\ programs\\ shromedriver.vin64\\ shro

"D:\\programs\\chromedriverwin64\\chromedriver.exe");

// Launch Chrome browser

WebDriver driver = new

ChromeDriver();

driver.manage().window().maximize(); //
Open Amazon login page

driver.get("https://www.amazon.in/ap/sig
nin");

// Set explicit wait (10 seconds)

WebDriverWait wait = **new**WebDriverWait(driver,
Duration.ofSeconds(10));

// Wait for the email input field to be visible and <u>clickable</u>

WebElement emailField = wait.until(ExpectedConditions.elementToB eClickable(By.id("ap_email")));

emailField.sendKeys("your_email@exampl
e.com"); // Enter your email

// Wait for the continue button to be visible and <u>clickable</u>

WebElement continueButton = wait.until(ExpectedConditions.elementToB eClickable(By.id("continue"))); continueButton.click();

```
}
    // Wait for 1 minute (60 seconds) on
the Amazon login page after entering
email
                                                             // Close the browser after 1 minute
     System. out. println(" Waiting 1
                                                             driver.quit();
minute on Amazon login page...");
                                                             System.out.println(" Browser closed
    try {
                                                        after waiting 1 minute.");
       Thread.sleep(60000); // Wait for 1
                                                          }
minute (60,000 milliseconds)
                                                        }
     } catch (InterruptedException e) {
       e.printStackTrace();
Amazon.in
 ← → ♂ ≒ amazor.in/ap/signin
 Chrome is being controlled by automated test software.
                                                  amazon
                                                 AGAKKL
```

Activate Windows
Go to Settings to activate Windows.

6 Write a Java Selenium script that to automate for Handling Web Elements: Automate checkbox and confirmation buttons and prompt alert messages.

Code:

import org.openqa.selenium.Alert; import org.openga.selenium.By; import // Set WebDriverWait org.openga.selenium.WebDriver; WebDriverWait wait = new WebDriverWait(driver, import org.openqa.selenium.WebElement; Duration.ofSeconds(10)); import org.openqa.selenium.chrome.ChromeDriv // 1. Handle Checkboxes import System.out.println(" Handling org.openqa.selenium.support.ui.Expected Checkboxes..."); Conditions; WebElement checkboxLink = import wait.until(ExpectedConditions.elementToB eClickable(By.linkText("Checkboxes"))); org.openqa.selenium.support.ui.WebDrive rWait; import java.time.Duration; checkboxLink.click(); // Navigate to the checkboxes page public class CheckBox{ public static // Wait for <u>checkboxes</u> to be visible void main(String[] args) { and interact with them WebElement checkbox1 = // Set ChromeDriver path wait.until(ExpectedConditions.elementToB eClickable(By.xpath("//input[@type='chec kbox'][1]"))); System.setProperty("webdriver.chrome.dri ver", checkbox1.click(); // Check the first "D:\\programs\\chromedriverwin64\\chro checkbox medriver.exe"); WebElement checkbox2 = wait.until(ExpectedConditions.elementToB eClickable(By.xpath("//input[@type='chec // Launch Chrome browser kbox'][2]"))); WebDriver driver = **new** checkbox2.click(); // Check the ChromeDriver(); second checkbox driver.manage().window().maximize(); // Optional: Uncheck the second checkbox // Open the "The Internet" website driver.get("https://thecheckbox2.click(); // Uncheck the

second checkbox

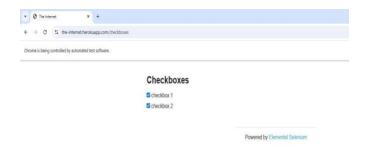
internet.herokuapp.com/");

```
// 2. Handle Confirmation Button
(Alert)
    System.out.println(" Handling
Confirmation Alert...");
    WebElement confirmationLink =
wait.until(ExpectedConditions.elementToB
eClickable(By.linkText("JavaScript
Alerts")));
    confirmationLink.click(); // Navigate
to the JavaScript alerts page
    WebElement confirmButton =
wait.until(ExpectedConditions.elementToB
eClickable(By.xpath("//button[text()='Click
for JS Confirm']")));
    confirmButton.click(); // Click the
confirmation button
    // Wait for the confirmation alert and
accept it
    Alert confirmationAlert =
driver.switchTo().alert();
    System.out.println("Alert text: " +
confirmationAlert.getText()); // Print alert
text
    confirmationAlert.accept(); // Accept
the confirmation alert
    // 3. Handle Prompt Alert (Input text
into the prompt alert)
    System.out.println(" Handling
```

Prompt Alert...");

```
wait.until(ExpectedConditions.elementToB
eClickable(By.xpath("//button[text()='Click
for JS Prompt']")));
    promptButton.click(); // Click the
prompt button
    // Wait for the prompt alert to appear,
then send input text
    Alert promptAlert =
driver.switchTo().alert();
    promptAlert.sendKeys("Hello,
Selenium!"); // Send text to the prompt
    promptAlert.accept(); // Accept the
prompt alert
    // Close the browser
driver.quit();
    System.out.println("
                             Browser
closed after handling checkboxes and
alerts.");
  }
}
```

WebElement promptButton =



public static void main(String[] args) {

7 Write a Java Selenium script that to automate for Handling Web Elements: Automate dropdown selection, radio button. // Set ChromeDriver path

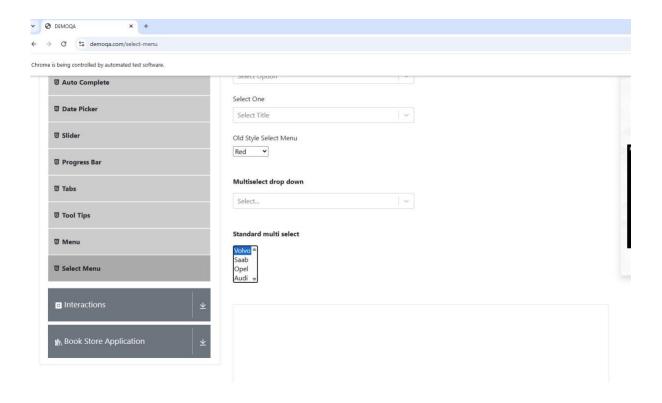
System.setProperty("webdriver.chrome.dri

Duration.ofSeconds(10));

Code: package ver", "D:\\programs\\chromedriverwin64\\chro Programs; medriver.exe"); import org.openqa.selenium.By; import // Launch <u>Chrome</u> browser org.openqa.selenium.WebDriver; WebDriver driver = **new** import org.openqa.selenium.WebElement; ChromeDriver(); import driver.manage().window().maximize(); org.openga.selenium.chrome.ChromeDriv er; import // Open the "DemoQA" website org.openqa.selenium.support.ui.Select; import driver.get("https://demoqa.com/selectme nu"); org.openqa.selenium.support.ui.WebDrive rWait; import java.time.Duration; // Set WebDriverWait public class Alert { WebDriverWait wait = new WebDriverWait(driver,

```
driver.findElement(By.xpath("//label[@for
    // 1. Handle <u>Dropdown</u> Selection
                                                  ='impressiveRadio']"));
    System.out.println(" Handling
                                                      radioButton1.click(); // Select the
Dropdown Selection...");
                                                  "Impressive" radio button
    WebElement dropdown =
driver.findElement(By.id("cars"));
                                                      // Wait for 5 seconds
                                                      try {
    // Use Select class to interact with the
                                                        Thread.sleep(5000); // 5 seconds
dropdown
                                                  delay
    Select selectDropdown = new
                                                      } catch (InterruptedException e) {
Select(dropdown);
                                                         e.printStackTrace();
                                                      }
    // Select the option by visible text
(e.g., "<u>Volvo</u>")
                                                      // Close the browser
selectDropdown.selectByVisibleText("Volv
                                                  driver.quit();
o");
                                                      System.out.println(" Browser closed
                                                  after handling dropdown and radio
    // Wait for 5 seconds
                                                  buttons.");
    try {
                                                    }
      Thread.sleep(5000); // 5 seconds
                                                  }
delay
    } catch (InterruptedException e) {
      e.printStackTrace();
    }
    // 2. Handle Radio Button Selection
    System. out. println (" Handling
Radio Button Selection...");
```

WebElement radioButton1 =



8 Write a Java Selenium script that to automate for Handling frames, Iframes and Nested Frames.

```
Code : package
```

Programs;

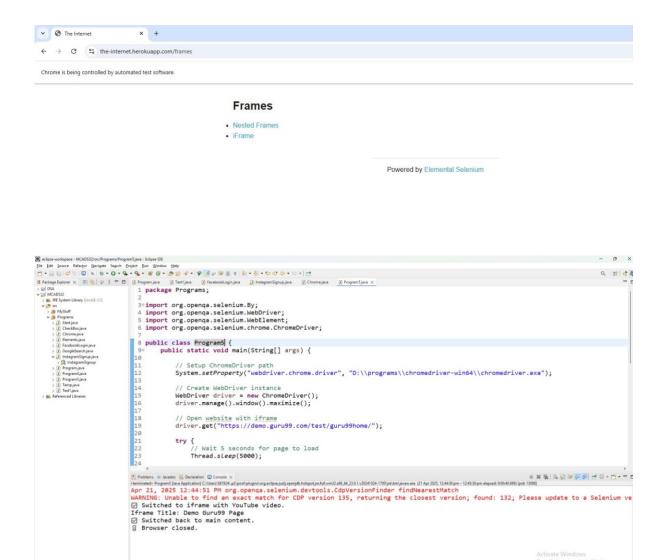
import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;

import

org.openqa.selenium.chrome.ChromeDriv er;

System.setProperty("webdriver.chrome.dri

```
// Wait 5 seconds for page to load
      Thread.sleep(5000);
                                                         // Wait 5 seconds to observe the
                                                   switch
                                                         Thread.sleep(5000);
      // Locate the <u>iframe</u> (YouTube video
embedded)
      WebElement iframe =
                                                       } catch (Exception e) {
driver.findElement(By.xpath("//iframe[con
                                                         System.out.println(" Exception
tains(@src, 'youtube')]"));
                                                   occurred: " + e.getMessage());
                                                       } finally {
      // Switch to iframe
                                                         // Close browser after total 15+
driver.switchTo().frame(iframe);
                                                   seconds
      System.out.println(" Switched to
                                                         driver.quit();
iframe with YouTube video.");
                                                         System. out. println(" Browser
                                                   closed.");
      // Wait 5 seconds to observe the
                                                       }
iframe content
                                                     }
      Thread.sleep(5000);
                                                  }
      // You can interact with the video
here, but due to restrictions,
      // we'll just print the title of the
<u>iframe</u> page
       String iframeTitle = driver.getTitle();
      System.out.println("Iframe Title: " +
iframeTitle);
      // Switch back to the main page
driver.switchTo().defaultContent();
      System.out.println(" Switched
back to main content.");
```



9 Write a Java Selenium script that to automate for Alerts and Popups: Interact with Selenium alerts (simple, confirmation, and prompt).

```
Code:
package Programs;

org.openqa.selenium.chrome.ChromeDriv
er;

import org.openqa.selenium.Alert; import

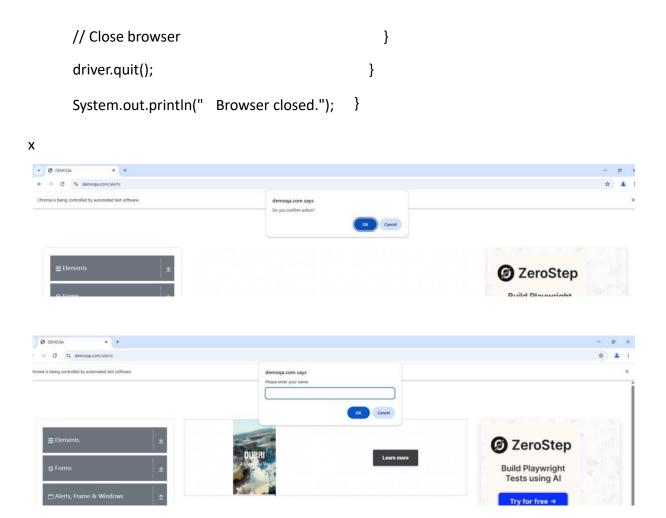
// Set ChromeDriver path
org.openqa.selenium.By; import

public class Task { public static void
org.openqa.selenium.WebDriver; import

main(String[] args) {
System.setProperty("webdriver.chrome
```

```
.dr iver",
                                                         // 2 Confirmation Alert
"D:\\programs\\chromedriverwin64\\c
                                                  driver.findElement(By.id("confirmButton"))
hromedriver.exe");
                                                  .click();
                                                        Thread.sleep(2000);
    // Launch Chrome browser
                                                        Alert confirmAlert =
                                                  driver.switchTo().alert();
    WebDriver driver = new
                                                        System.out.println("Confirmation
ChromeDriver();
                                                  Alert Text: " + confirmAlert.getText());
driver.manage().window().maximize();
                                                        confirmAlert.dismiss(); // Click
                                                  Cancel
    // Navigate to Alerts demo page
                                                        Thread.sleep(2000);
driver.get("https://demoqa.com/alerts");
                                                        // 3DPrompt Alert
    try
{
                                                  driver.findElement(By.id("promtButton")).
      // Wait before actions
                                                  click();
      Thread.sleep(5000);
                                                        Thread.sleep(2000);
                                                        Alert promptAlert =
                                                  driver.switchTo().alert();
      // 1

Simple Alert
                                                        System.out.println("Prompt Alert
                                                  Text: " + promptAlert.getText());
driver.findElement(By.id("alertButton")).cli
ck();
                                                  promptAlert.sendKeys("Kamlesh");
      Thread.sleep(2000); // wait for
                                                  Thread.sleep(1000);
alert to appear
                                                  promptAlert.accept(); // Click OK
      Alert simpleAlert =
                                                        Thread.sleep(2000);
driver.switchTo().alert();
      System.out.println("Simple Alert
                                                      } catch (Exception e) {
Text: " + simpleAlert.getText());
simpleAlert.accept(); // Click OK
                                                         System.out.println(" Exception:
                                                  " + e.getMessage());
      Thread.sleep(2000);
                                                      } finally {
```

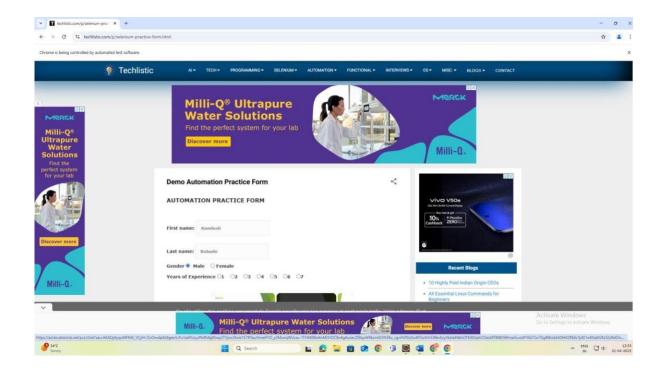


10 Write a Java Selenium script that automate for Submission: Automate form filling and submission.

Code:

```
package Programs;
                                                for
                                                page to
import org.openqa.selenium.By; import
                                                load
org.openqa.selenium.WebDriver; import
                                                      Thread.sleep(5000);
org.openqa.selenium.WebElement;
import
                                                      // Fill first name
org.openqa.selenium.chrome.ChromeDriv
                                                      WebElement fname =
                                                driver.findElement(By.name("firstname"));
                                                fname.sendKeys("Kamlesh");
public class Form {    public static void
                                                      Thread.sleep(5000);
main(String[] args) {
    // Set the path to ChromeDriver
                                                      // Fill last name
System.setProperty("webdriver.chrome.dr
                                                      WebElement Iname =
                                                driver.findElement(By.name("lastname"));
"D:\\programs\\chromedriverwin64\\chro
                                                Iname.sendKeys("Bobade");
medriver.exe");
                                                      Thread.sleep(5000);
    // Launch Chrome browser
                                                      // Select Gender radio button
    WebDriver driver = new
ChromeDriver();
                                                driver.findElement(By.id("sex0")).click();
driver.manage().window().maximize();
                                                      Thread.sleep(5000);
    // Open the form website
                                                      // Select Years of Experience
driver.get("https://www.techlistic.com/p/s
elenium-practice-form.html");
                                                driver.findElement(By.id("exp3")).click();
                                                      Thread.sleep(5000);
    try
{
// Wait
```

```
// Fill Date
driver.findElement(By.id("datepicker")).se
                                                driver.findElement(By.id("submit")).click();
ndKeys("04/21/2025");
                                                       Thread.sleep(5000);
      Thread.sleep(5000);
                                                    } catch (Exception e) {
      // Select Profession checkbox
                                                       System.out.println(" Exception:
                                                " + e.getMessage());
driver.findElement(By.id("profession1")).cli
                                                    } finally {
ck();
                                                       // Close the browser
      Thread.sleep(5000);
                                                driver.quit();
                                                       System.out.println(" Form
      // Select Automation Tool
                                                submitted and browser closed.");
                                                    }
driver.findElement(By.id("tool2")).click();
                                                  }
      Thread.sleep(5000);
                                                }
      // Select Continent from dropdown
      WebElement continent =
driver.findElement(By.id("continents"));
continent.sendKeys("Europe");
      Thread.sleep(5000);
      // Select Selenium Command
WebElement commands =
driver.findElement(By.id("selenium comm
ands"));
      commands.sendKeys("Browser
Commands");
      Thread.sleep(5000);
      // Submit the form
```



11 Write a Java Selenium script that automate for Browser Compatibility Testing: Execute the same test across different browsers.

public static void runTest(WebDriver driver, String browserName) {

Code : package try {

Programs; System. out. println(" Running test on: " + browserName);

import org.openqa.selenium.WebDriver;

import

org.openqa.selenium.chrome.ChromeDriv er;

import

org.openqa.selenium.firefox.FirefoxDriver;

// import

org.openqa.selenium.edge.EdgeDriver;

public class BrowserTest {

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

driver.get("https://www.amazon.in");

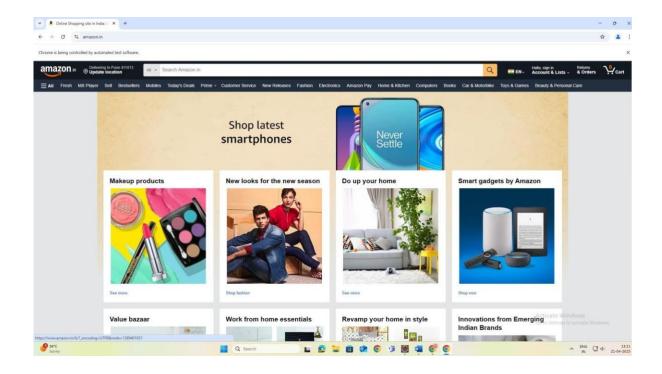
Thread.*sleep*(5000); // Wait for 5 seconds

String title = driver.getTitle();

System.out.println("[" + browserName + "]

Page Title: " + title); } catch (Exception e) {

```
System.out.println(" Error on "+
browserName + ": " + e.getMessage());
                                                 System.setProperty("webdriver.gecko.driv
                                                 er", "D:\\programs\\geckodriver.exe");
    } finally {
                    if
                                                       WebDriver firefoxDriver = new
(driver != null) {
                                                 FirefoxDriver();
driver.quit();
                                                 runTest(firefoxDriver, "Firefox");
                                                                                     }
        System.out.println(" "+
                                                 catch (Exception e) {
browserName + " browser closed.\n");
                                                       System. out. println(" Skipping
      }
                                                 Firefox: " + e.getMessage());
    }
                                                     }
  }
                                                     // EDGE (Optional)
  public static void main(String[] args) {
                                                     /*
                                                 try {
    // CHROME
    try {
                                                 System.setProperty("webdriver.edge.drive
                                                 r", "D:\\programs\\msedgedriver.exe");
System.setProperty("webdriver.chrome.dri
                                                       WebDriver edgeDriver = new
ver",
                                                 EdgeDriver();
"D:\\programs\\chromedriverwin64\\chro
                                                 runTest(edgeDriver, "Edge");
                                                                                  }
medriver.exe");
                                                 catch (Exception e) {
      WebDriver chromeDriver = new
                                                       System.out.println(" Skipping
ChromeDriver();
                                                 Edge: " + e.getMessage());
runTest(chromeDriver, "Chrome");
                                      }
                                                     }
catch (Exception e) {
                                                     */
      System.out.println(" Chrome test
failed: " + e.getMessage());
                                                   }
    }
                                                 }
    // FIREFOX
    try {
```



12 Write a Java Selenium script that automate for Drag and Drop WebElements.

Code : // Set up ChromeDriver

package Programs;

import org.openqa.selenium.By; import org.openqa.selenium.WebDriver; import org.openqa.selenium.WebElement; import

org.openqa.selenium.chrome.ChromeDriv er;

import org.openga.selenium.interactions.Actions;

public class DragAndDropDemo {
 public static void main(String[] args) {

System.setProperty("webdriver.chrome.dr iver",

"D:\\programs\\chromedriverwin64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

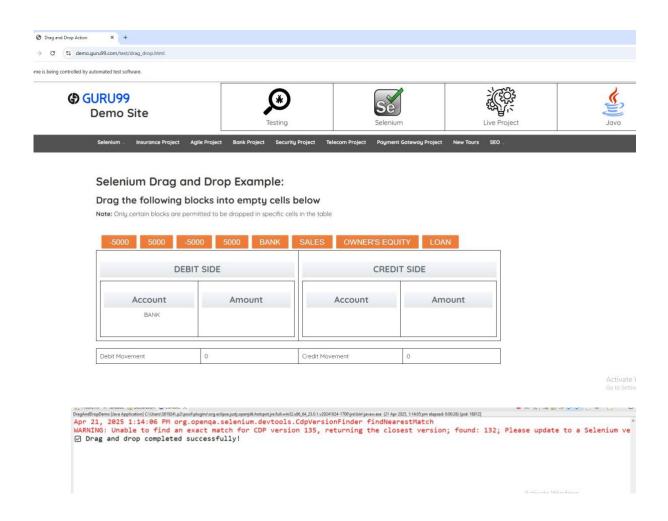
try {

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

driver.get("https://demo.guru99.com/test
/drag_drop.html");

Thread.sleep(5000); // Wait for the page to load

```
// Source element: BANK
      WebElement fromBank =
                                                       act.dragAndDrop(fromAmount,
driver.findElement(By.xpath("//a[contains(
                                                toAmountDebit).build().perform();
                                                Thread.sleep(5000);
text(),'BANK')]"));
      // Target element: Account section
on Debit Side
                                                       System.out.println(" Drag and
      WebElement toAccountDebit =
                                                drop completed successfully!");
driver.findElement(By.xpath("//ol[@id='ba
nk']/li"));
                                                    } catch (Exception e) {
                                                       System.out.println(" Error
      // Source element: 5000
                                                occurred: " + e.getMessage());
      WebElement fromAmount =
                                                    } finally {
driver.findElement(By.xpath("//a[contains(
text(),'5000')]"));
                                                try {
      // Target element: Amount section
                                                         Thread.sleep(10000); // Wait for
on Debit Side
                                                10 seconds before closing
      WebElement toAmountDebit =
                                                       } catch (InterruptedException e) {
driver.findElement(By.xpath("//ol[@id='a
                                                         e.printStackTrace();
mt7']/li"));
                                                       }
                                                       driver.quit();
      // Drag and drop using Actions
                                                       System.out.println(" Browser
      Actions act = new Actions(driver);
                                                closed.");
                                                    }
      act.dragAndDrop(fromBank,
                                                  }
toAccountDebit).build().perform();
                                                }
      Thread.sleep(5000);
```



13 Write a Java Selenium script that automate for Screenshots and Blocking Ads.

Code:

package Programs; import

org. open qa. selenium. chrome. Chrome Opti

ons;

import org.openqa.selenium.*;

import

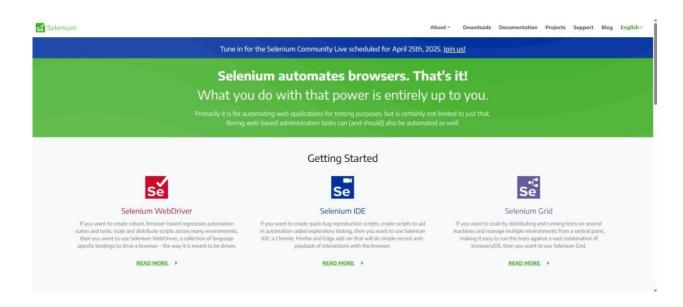
import javax.imageio.lmagelO;

org. open qa. selenium. chrome. Chrome Driv

er;

import java.io.File;

```
import java.io.IOException;
import java.util.concurrent.TimeUnit;
                                                 driver.get("https://www.selenium.dev/");
                                                 Thread.sleep(5000); // Wait for page to
public class ScreenshotWithSeleniumSite {
                                                 load fully
public static void main(String[] args) {
    // Set the path to ChromeDriver
                                                       // Take screenshot of homepage
                                                       TakesScreenshot screenshot =
System.setProperty("webdriver.chrome.dr
                                                 (TakesScreenshot) driver;
iver",
                                                       File src =
"D:\\programs\\chromedriverwin64\\chro
                                                 screenshot.getScreenshotAs(OutputType.F
medriver.exe");
                                                 ILE);
                                                       File dest = new
    // Chrome options to disable popups
                                                 File("D:\\programs\\selenium_homepage
(minimal ads on this site anyway)
                                                 _screenshot.png");
    ChromeOptions options = new
ChromeOptions();
                                                 org.openqa.selenium.io.FileHandler.copy(s
                                                 rc, dest);
    options.addArguments("--
disablepopup-blocking");
                                                       System.out.println(" Screenshot
                                                 saved at: " + dest.getAbsolutePath());
    // Launch browser
    WebDriver driver = new
ChromeDriver(options);
                                                     } catch (InterruptedException |
                                                 IOException e) {
     try
                                                       System.out.println(" Error: "+
{
                                                 e.getMessage());
                                                     } finally {
driver.manage().window().maximize();
                                                 try {
driver.manage().timeouts().implicitlyWait(
                                                         Thread.sleep(5000); // Delay
10, TimeUnit.SECONDS);
                                                 before closing
                                                       } catch (InterruptedException e) {
      // Open Selenium official site
                                                         e.printStackTrace();
```



```
t Package Epilorer 🗴 🖹 🕏 🖟 🖟 🖟 🖟 Program java 🖟 Test tjava 🖟 SectemborWithSeleniumStejava 🔑 Instagram Signup java 🖟 (Thome java 🖟 Thome java 🖟 DagahadDropDemo java 🖟 ScreenborWithSeleniumStejava X
1 package Programs;
                            3*import org.openqa.selenium.*;
                            11
                              12 public class ScreenshotWithSeleniumSite {
                                   public static void main(String[] args) {
    // Set the path to ChromeDriver
                                          System.setProperty("webdriver.chrome.driver", "D:\\programs\\chromedriver-win64\\chromedriver.exe");
     Facebookl ogin java
Form java
Form java
GoogleSearch java
Instagram Signup java
Instagram Signup
Program java
Program java
Program java
Program java
Program java
Form java
Screenshott Wisheleni
Task java
Task java
Task java
Referenced Libraries
                                          // Chrome options to disable popups (minimal ads on this site anyway)
                                        ChromeOptions options = new ChromeOptions();
                             18
                                         options.addArguments("--disable-popup-blocking");
                             20
                                          // Launch browser
                                          WebDriver driver = new ChromeDriver(options);
                                          try {
    driver.manage().window().maximize();
                                              driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
                                               // Open Selenium official site
                                              driver.get("https://www.selenium.dev/");
Thread.sleep(5000); // Wait for page to load fully
                             30
```

14 Write aJava Selenium script that automate to opens the web table from the url

```
Code: package
                                                /web-table-element.php");
                                                Thread.sleep(5000); // Wait for table to
Programs;
                                                load
import org.openqa.selenium.By; import
                                                       // Locate the table
org.openga.selenium.WebDriver; import
                                                       WebElement table =
                                                driver.findElement(By.className("dataTab
org.openqa.selenium.WebElement;
                                                le"));
import
org.openga.selenium.chrome.ChromeDriv
er;
                                                       // Get all rows
                                                       List<WebElement> rows =
import java.util.List;
                                                table.findElements(By.tagName("tr"));
public class WebTableAutomation {
                                                       // Loop through each row and print
                                                cells
                                                            for (WebElement row : rows) {
public static void main(String[] args) {
                                                         List<WebElement> cells =
    // Set the path for ChromeDriver
                                                row.findElements(By.tagName("td"));
                                                         for (WebElement cell: cells) {
System.setProperty("webdriver.chrome.dr
iver",
                                                           System.out.print(cell.getText()
"D:\\programs\\chromedriverwin64\\chro
                                                + "\t");
medriver.exe");
                                                         }
                                                         System.out.println();
    // Launch Chrome
                                                       }
    WebDriver driver = new
ChromeDriver();
                                                     } catch (Exception e) {
    try
                                                       System.out.println(" Error: "+
{
                                                e.getMessage());
                                                    } finally {
driver.manage().window().maximize();
                                                try {
driver.get("https://demo.guru99.com/test
                                                         Thread.sleep(5000); // Keep
                                                browser open for 5 sec before closing
```

```
} catch (InterruptedException e) {
                                                            e.printStackTrace();
                                            driver.quit();
                                                                                                                                                                                                                                                                                                                                           }
                                            System.out.println(" Browser
closed.");
                                            }
 Problems # Javadoc Declaration Octoriole X

terminated: WebTableAutornation [lave Application] (*\text{Vietniss}1924-p2.poorhylugin\tagsectipse.jutijopenjdk.hotspot/jefull.wini2.id6_64_23.0.1.00041024-1700_jefulmijavov.eee (21 Apr 2005, $12253 pm - 1.22.12 pm elapsed 00018.224) [pid 127 Apr 21, 2025 1:22:54 PM org.openqua.sellenium.devtools.CdpVersionFinder findNearestMatch

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Kansai Nerolac Paint
ICICI Pru Life A
Asian Paints Ltd.
YES Bank Ltd. A
GRUH Finance Li A
Asian Paints Ltd.
Chennai Petro. A
PI Industries A
Hero MotoCorp A
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Interest A | 366.1 | 992.8
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Bajaj Corp Ltd. A
Quess Corp A
Bharat Electroni
YES Bank Ltd. A
IDFC L A 860.3
Mangalore Refine
CESC Ltd. A
PI Industries A
Nestle India A
Asian Paints Ltd.
Jagran Prakashan
Browser closed.
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```
15 Implement TestNG Framework for Automation Testing: Create test suite with TestNG.
Code: package
                                                 public void testGoogleSearch()
                                               throws
selenium;
                                               InterruptedException {
                                               driver.get("https://www.google.com");
                                                   Thread.sleep(1000);
import org.openqa.selenium.By; import
org.openqa.selenium.WebDriver; import
org.openga.selenium.WebElement;
                                                   WebElement searchBox =
                                               driver.findElement(By.name("q"));
import
org.openqa.selenium.chrome.ChromeDriv
                                                   searchBox.sendKeys("Selenium
er; import
                                               WebDriver");
org.testng.annotations.*;
                                                   Thread.sleep(1000);
                                               searchBox.submit();
public class GoogleSearchTest {
                                                   Thread.sleep(3000);
  WebDriver driver;
                                                 }
  @BeforeClass
                                                 @AfterClass public
public void setup() {
                                               void tearDown() {
                                                   driver.quit();
System.setProperty("webdriver.chrome.dr
                                                 }
iver", "D:\\(SEM 4)
                                               }
MCADS\\STQA\\MySetup\\Driver\\chrom
edriv er-win64\\chromedriver.exe");
driver = new ChromeDriver();
                                                 2. testng.xml
driver.manage().window().maximize();
                                               <!DOCTYPE suite SYSTEM
                                               "https://testng.org/testng-1.0.dtd" >
  }
                                               <suite name="AutomationSuite">
                                                <test name="GoogleSearchTest">
  @Test
```

</suite>

