

PROGRAM:1

```
package com.program01;

import java.time.Duration;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class LaunchBrowser {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
"C:\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        try {

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(40));

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

            String pageTitle = driver.getTitle();

            System.out.println("Page Title: "+pageTitle);

        } catch (Exception e) {

            e.printStackTrace();

        } finally {

            driver.quit();

        }

    }

}
```

PROGRAM:2

```
package prog2;

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

public class SeleniumTest {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        driver.get("https://www.dofactory.com/html/button/id");

        WebElement buttonElement = driver.findElement(By.id("alert-button"));

        buttonElement.click();

        try {

            Thread.sleep(3000);

        } catch (InterruptedException e) {

            e.printStackTrace();

        }

        driver.quit();

    }

}
```

PROGRAM:3

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import java.io.File;
import org.apache.commons.io.FileUtils;

public class screenshotExample {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver","C:\\Users\\pc\\Downloads\\chromedriver-
win64 (1)\\chromedriver-win64\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();
        driver.get("https://srinivasuniversity.edu.in/
");

        takescreenshot(driver,"screenshot.png");
        driver.quit();
    }

    public static void takescreenshot(WebDriver driver,String filename)
    {
        try {
            TakesScreenshot screenshot=(TakesScreenshot)driver;
            File srcFile=screenshot.getScreenshotAs(OutputType.FILE);
            File destFile=new File(filename);
            FileUtils.copyFile(srcFile,destFile);
        }
    }
}
```

```
        System.out.println("screenshot captured and saved to:"+  
destFile.getAbsolutePath());
```

```
    }catch(Exception e) {  
        e.printStackTrace();  
    }
```

```
}
```

```
}
```

PROGRAM:4

```
import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;


public class HandleAlert {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");


        WebDriver driver = new ChromeDriver();


        try {

            driver.get("http://the-internet.herokuapp.com/javascript_alerts");


            driver.findElement(By.xpath("//button[text()='Click for JS Alert']")).click();


            Alert alert = driver.switchTo().alert();


            System.out.println("Alert message: " + alert.getText());


            alert.accept();


            System.out.println("Alert accepted.");


        } catch (Exception e) {

            System.out.println("Error: " + e.getMessage());

        } finally {

            driver.quit();

        }

    }

}
```

}

}

}

PROGRAM:5

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

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;


public class GoogleSearchTest {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        try {

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

            WebElement searchBox = driver.findElement(By.name("q"));

            searchBox.sendKeys("Selenium");

            searchBox.submit();

            Thread.sleep(2000);

            String pageTitle = driver.getTitle();

            if (pageTitle.contains("Selenium")) {

                System.out.println("Search successful: Test Passed!");

            } else {
```

```
        System.out.println("Search Unsuccessful: Test Failed!");
    }
} catch (Exception e) {
    e.printStackTrace();
} finally {
    driver.quit();
}
}
```


PROGRAM:6

```
import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.Select;


public class RegistrationFormTest {

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

        // Set path to ChromeDriver

        System.setProperty("webdriver.chrome.driver", "C:\\\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");


        // Initialize WebDriver

        WebDriver driver = new ChromeDriver();


        // Open the website

        driver.get("https://rajath2025.w3spaces.com/Sample_Registration_Form.html"); // Replace with
actual URL

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


        WebElement continueButton = driver.findElement(By.id("continue-btn"));

        continueButton.click();


        // Fill in the required fields

        driver.findElement(By.id("firstName")).sendKeys("John"); // Replace with actual field ID

        driver.findElement(By.id("lastName")).sendKeys("Doe"); // Replace with actual field ID

        driver.findElement(By.id("userNumber")).sendKeys("9874563218");

        driver.findElement(By.id("userEmail")).sendKeys("johndoe@example.com");
```

```

// Select an option from a dropdown
WebElement dropdown = driver.findElement(By.id("country")); // Replace with actual dropdown
ID

Select select = new Select(dropdown);
select.selectByVisibleText("India"); // Replace with actual option


// Check a checkbox
driver.findElement(By.id("hobbies-checkbox-1")).click(); // Replace with actual checkbox ID


// Submit the form
driver.findElement(By.id("submit")).click(); // Replace with actual button ID


// Wait for response
Thread.sleep(3000);


// Verify successful submission
WebElement successMessage = driver.findElement(By.id("successMessage")); // Replace with
actual success message ID
if (successMessage.isDisplayed()) {
    System.out.println("Registration successful!");
} else {
    System.out.println("Registration failed!");
}


// Close the browser
driver.quit();
}
}

```

PROGRAM:7

```
package p7;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import java.util.List;

public class SeleniumWebTable {
    public static void main(String[] args) {
        // Set path to ChromeDriver
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pc\\Downloads\\chromedriver-win64 (1)\\chromedriver-win64\\chromedriver.exe");

        // Initialize WebDriver
        WebDriver driver = new ChromeDriver();

        // Open the webpage containing the table
        driver.get("https://www.techlistic.com/p/demo-selenium-practice.html"); // Replace with actual URL
        driver.manage().window().maximize();

        // Locate the table (adjust the XPath or CSS selector as needed)
        WebElement table = driver.findElement(By.xpath("//table[contains(@class, 'table')]"));

        // Get all rows of the table
        List<WebElement> rows = table.findElements(By.tagName("tr"));

        // Iterate through each row and extract data
        for (WebElement row : rows) {
```

```
List<WebElement> columns = row.findElements(By.tagName("td")); // Get all columns in the
row
for (WebElement column : columns) {
    System.out.print(column.getText() + " | "); // Print row data in a formatted way
}
System.out.println();
}

// Close the WebDriver
driver.quit();
}
}
```