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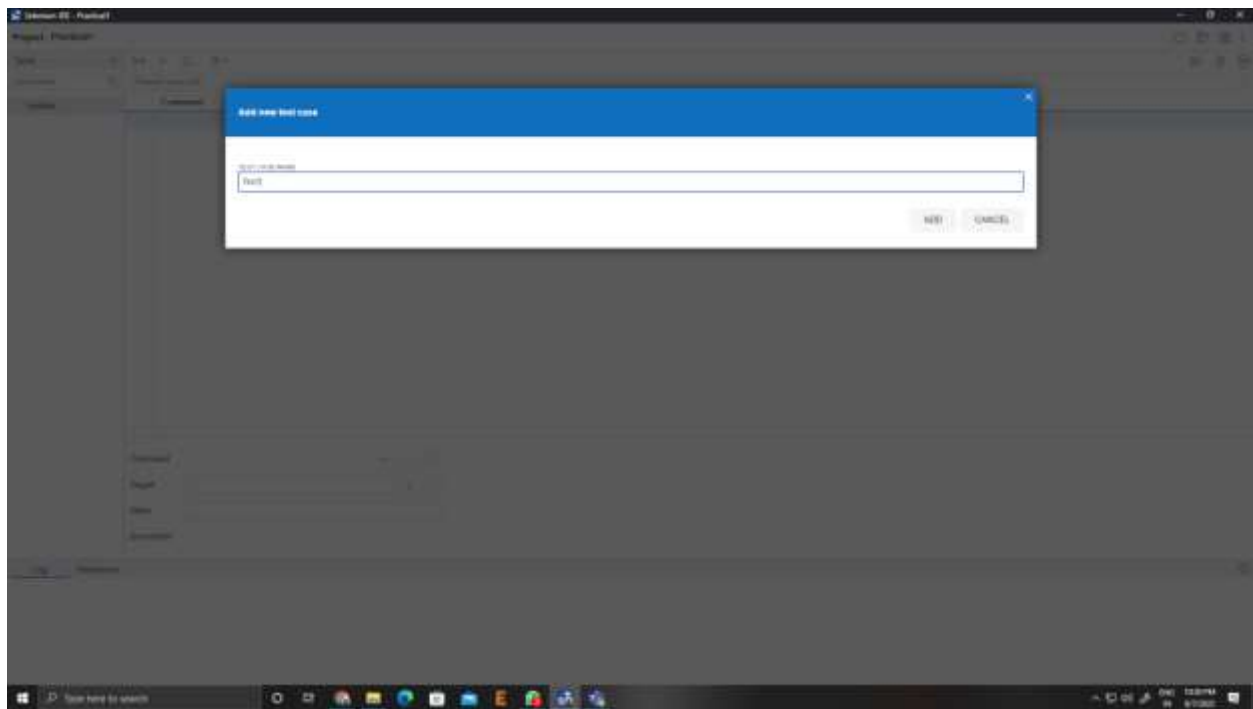
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2	Install Selenium IDE; Conduct a test suite for any two web sites.	5	26/07/23	
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Practical 1

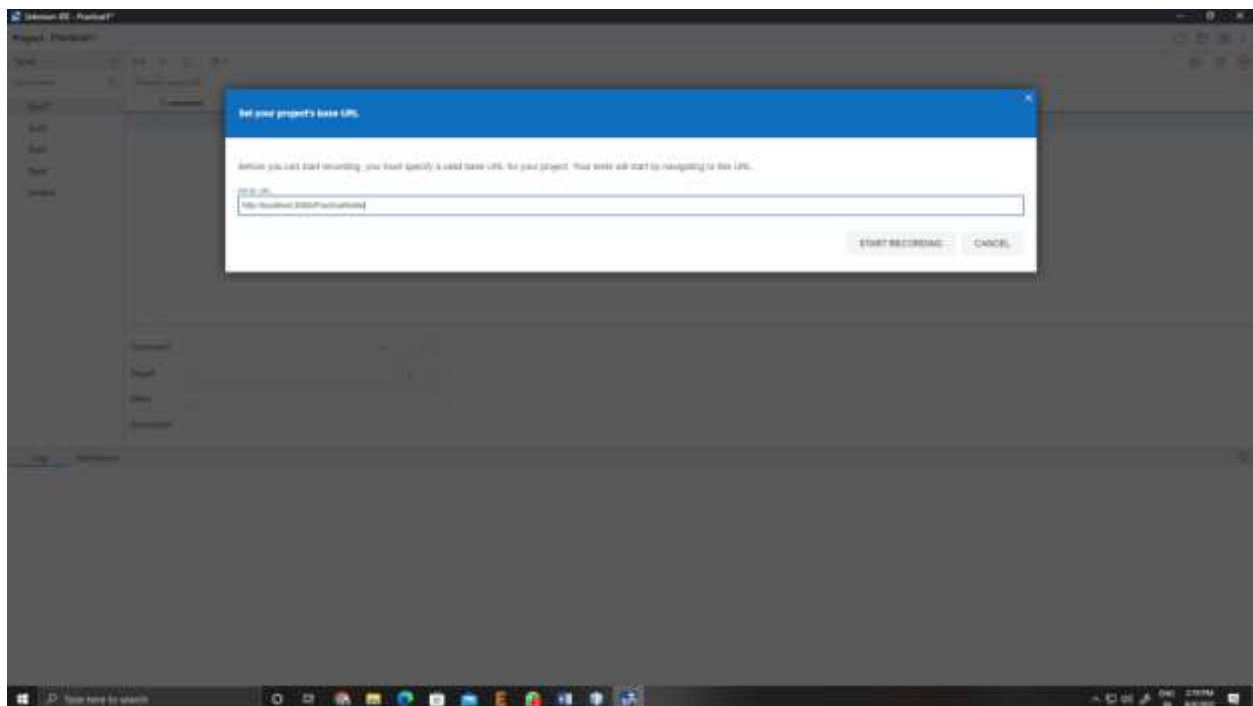
Aim:

Install Selenium IDE; Write a test suite containing minimum 4 test cases for different formats.

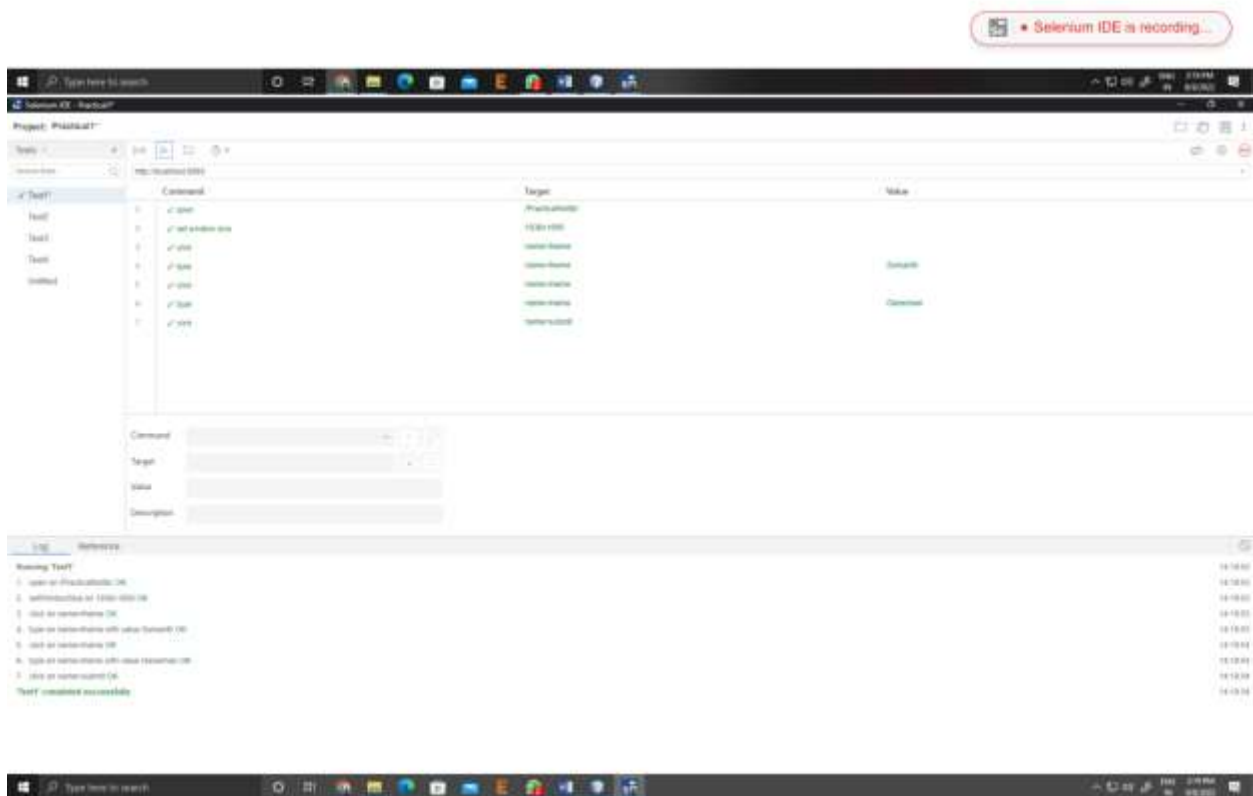
Test 1



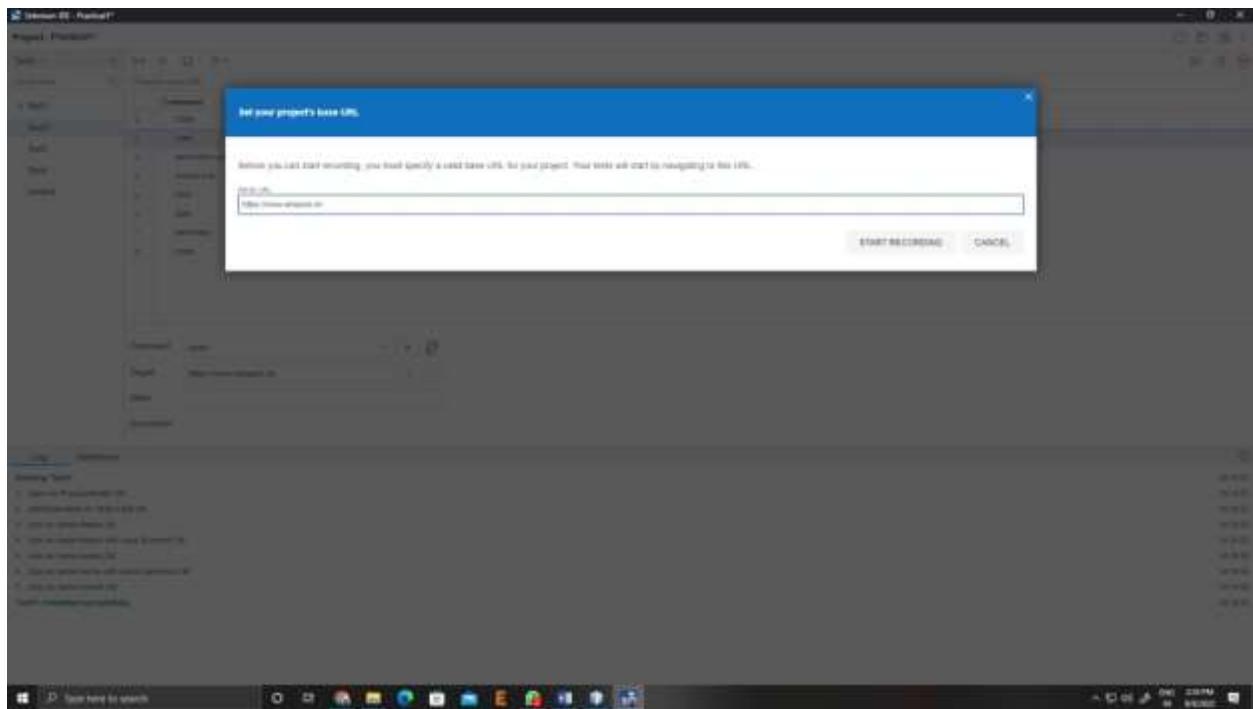
url:



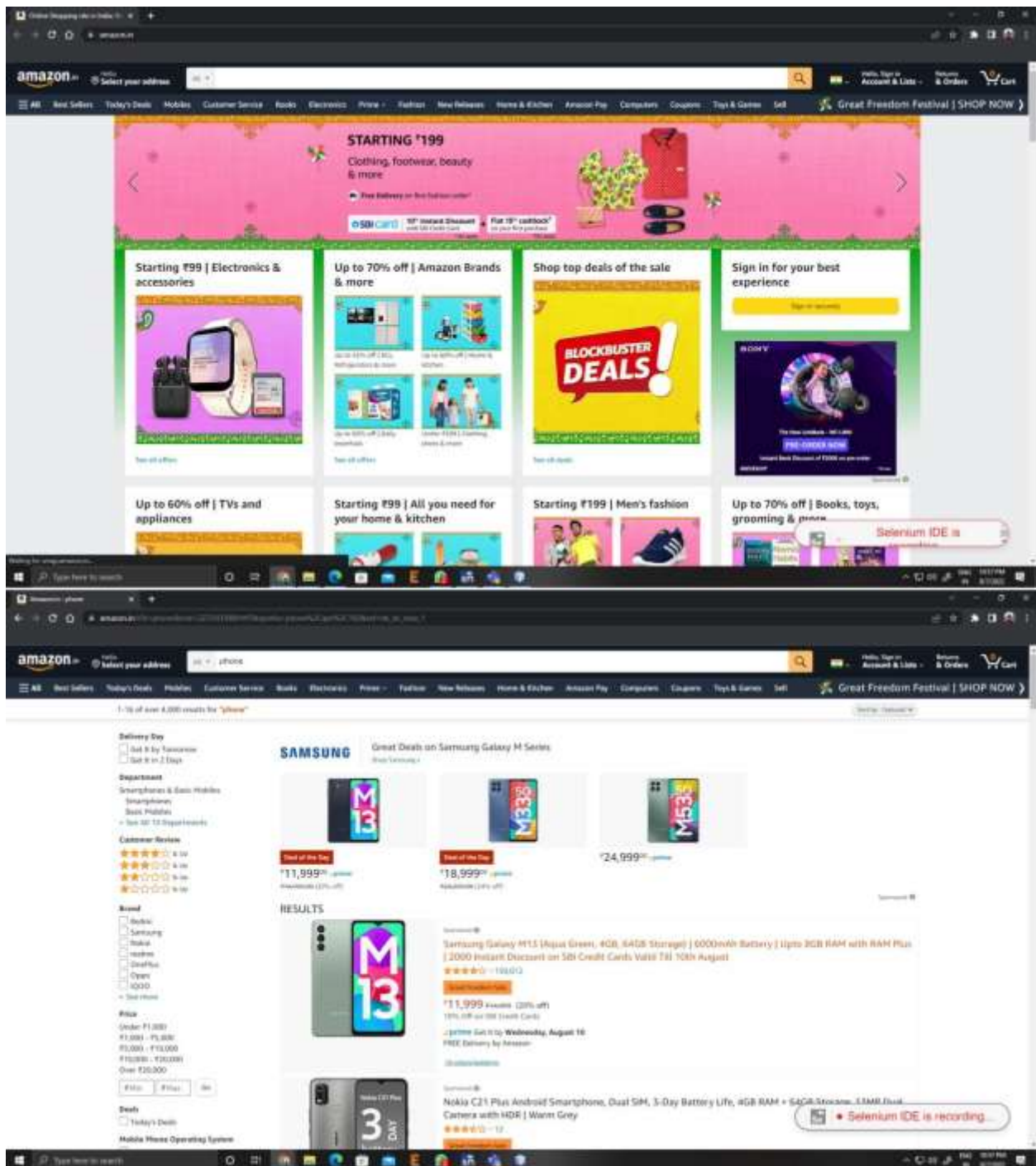
Output:

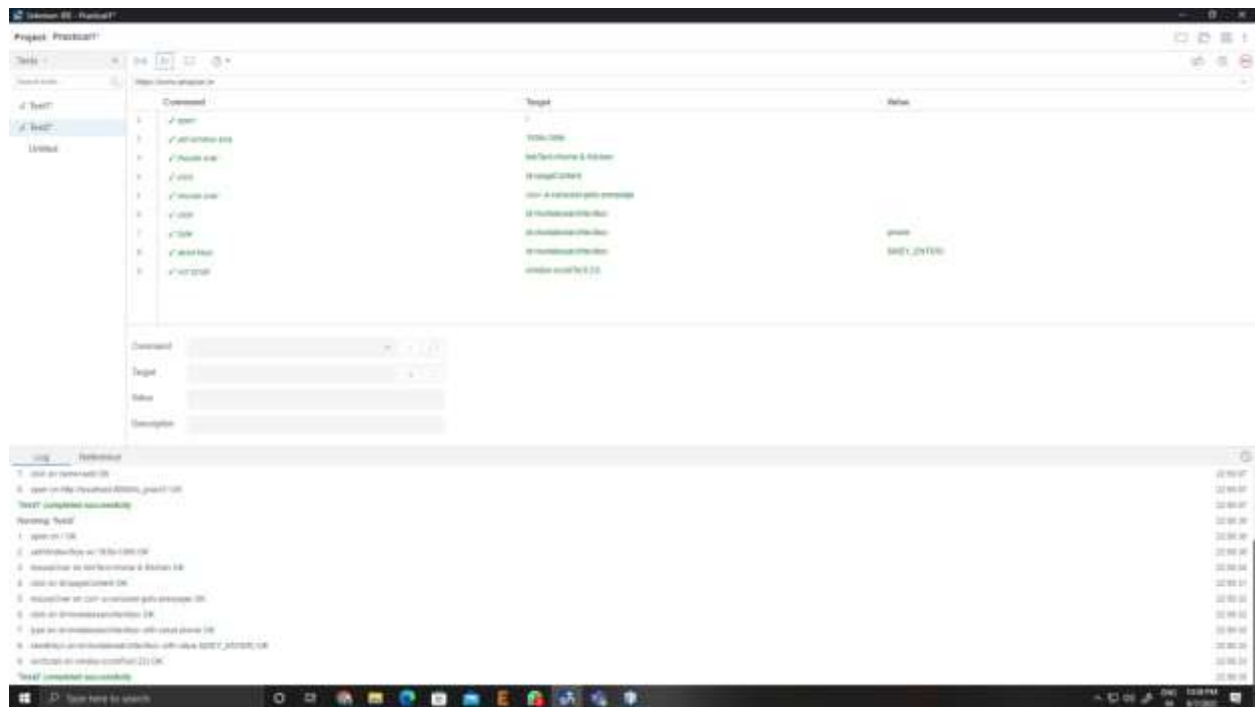


url:

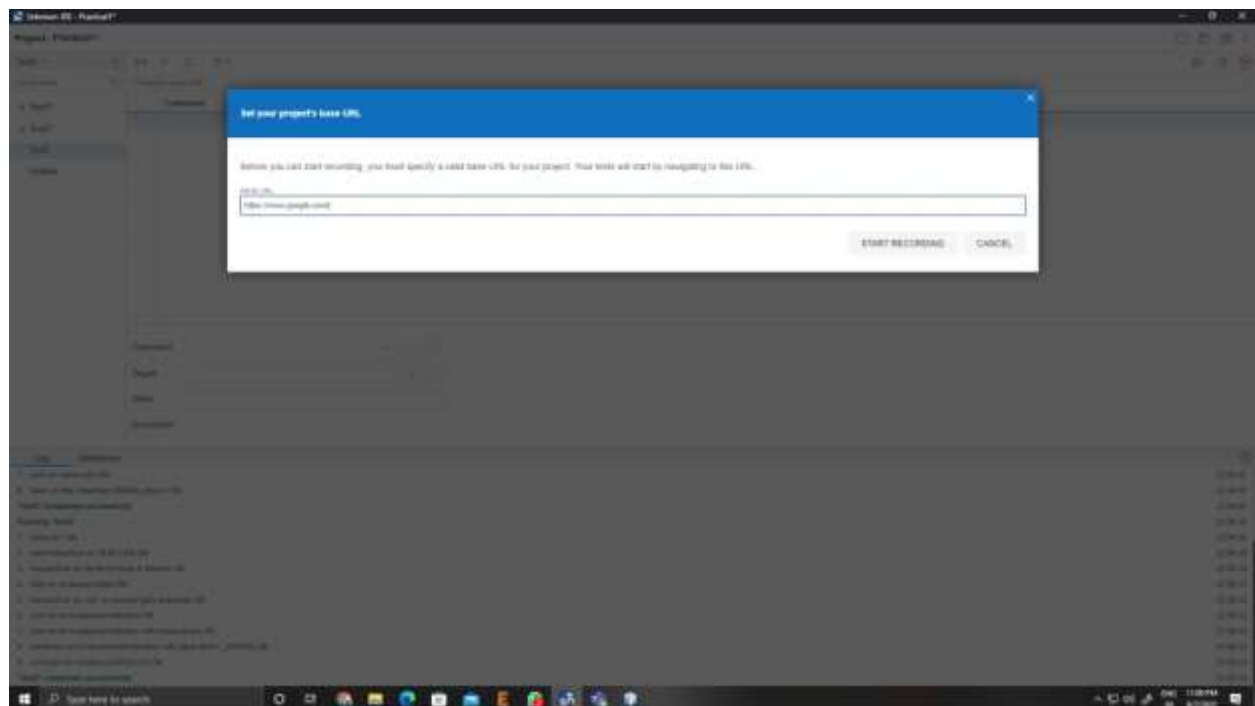


Output:

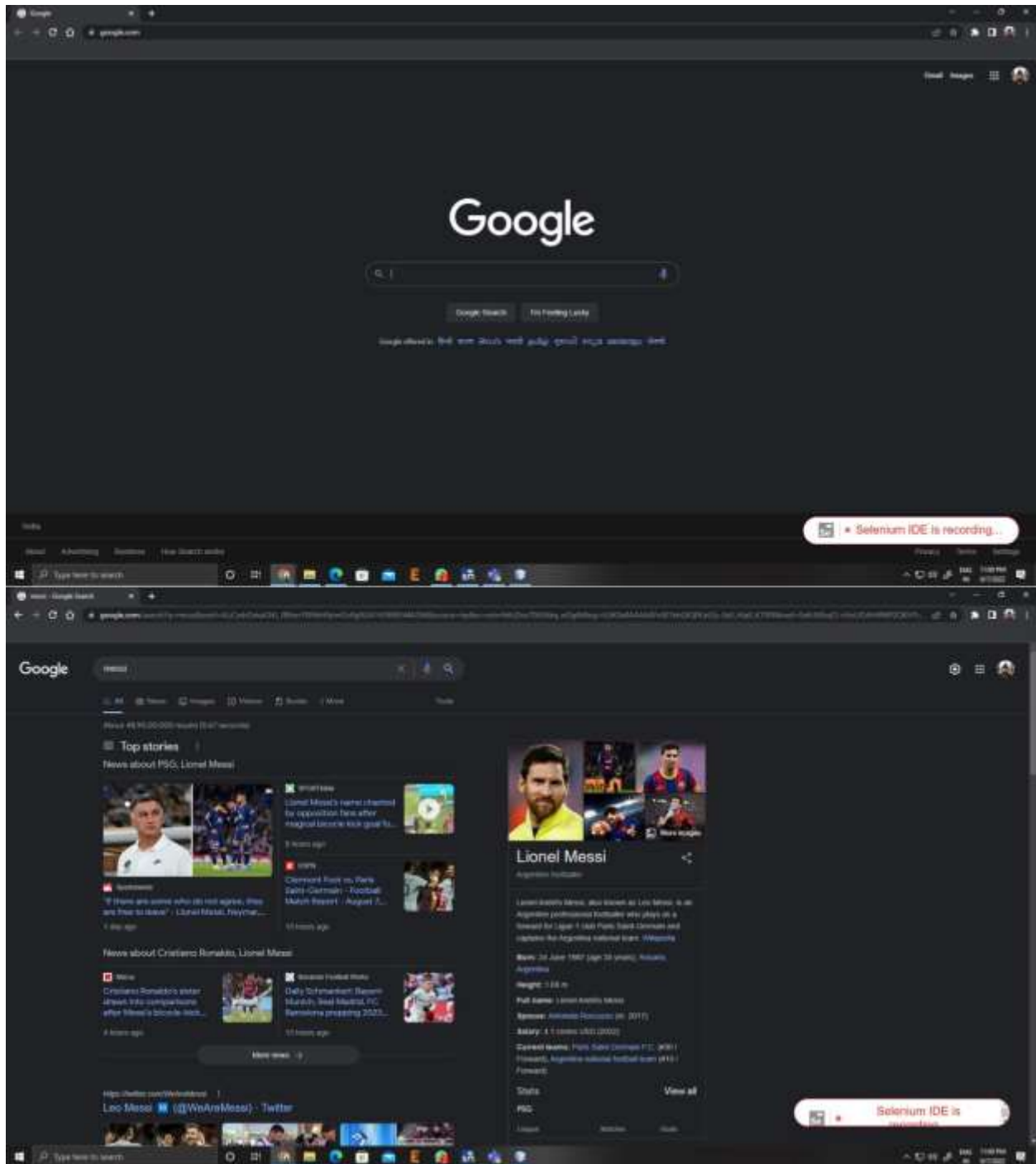


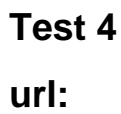


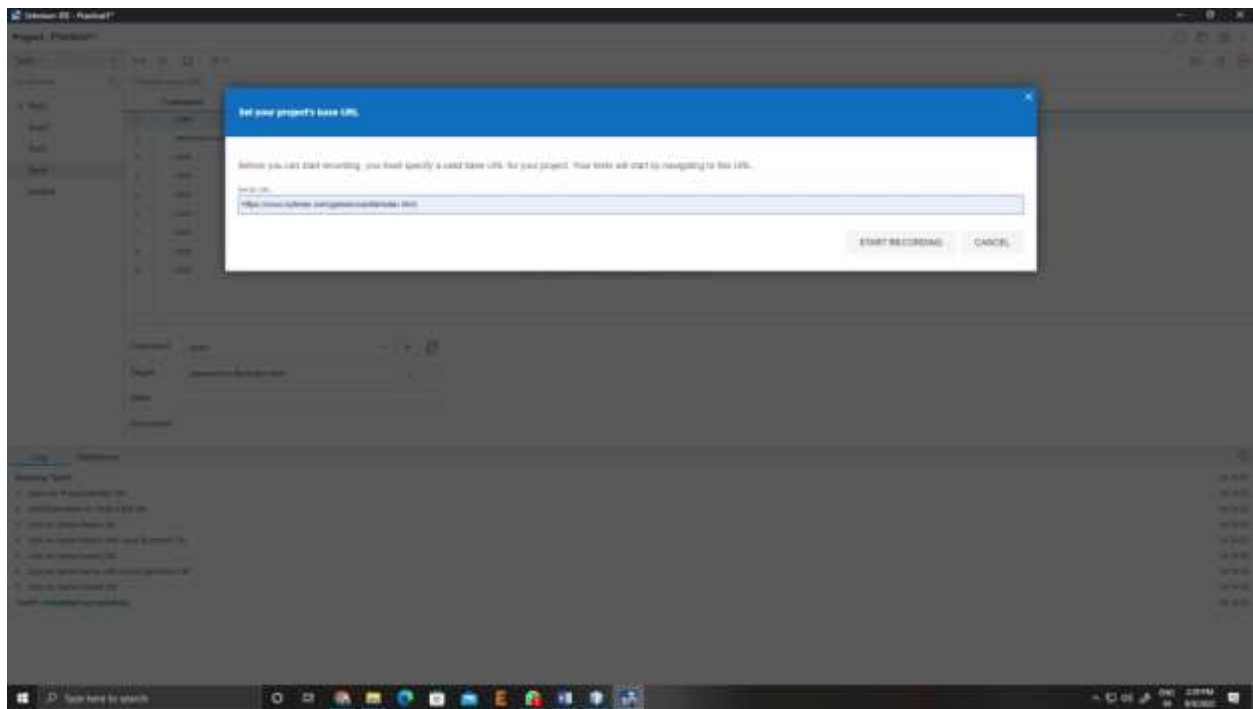
url:



Output:







Output:

Wordle

C A R D S

Selenium IDE is recording...

Project: Project1

Step	Command	Target
1	click	gameoverbutton[0]
2	waitForTextToBePresentInElement	body[0]
3	click	gameoverbutton[0]
4	click	gameoverbutton[0]
5	click	gameoverbutton[0]
6	click	gameoverbutton[0]
7	click	gameoverbutton[0]
8	click	gameoverbutton[0]
9	click	gameoverbutton[0]

Log

Step	Command	Target	Time
1	click	gameoverbutton[0]	22:14:29
2	waitForTextToBePresentInElement	body[0]	22:14:29
3	click	gameoverbutton[0]	22:14:29
4	click	gameoverbutton[0]	22:14:29
5	click	gameoverbutton[0]	22:14:29
6	click	gameoverbutton[0]	22:14:29
7	click	gameoverbutton[0]	22:14:29
8	click	gameoverbutton[0]	22:14:29
9	click	gameoverbutton[0]	22:14:29

Practical 2

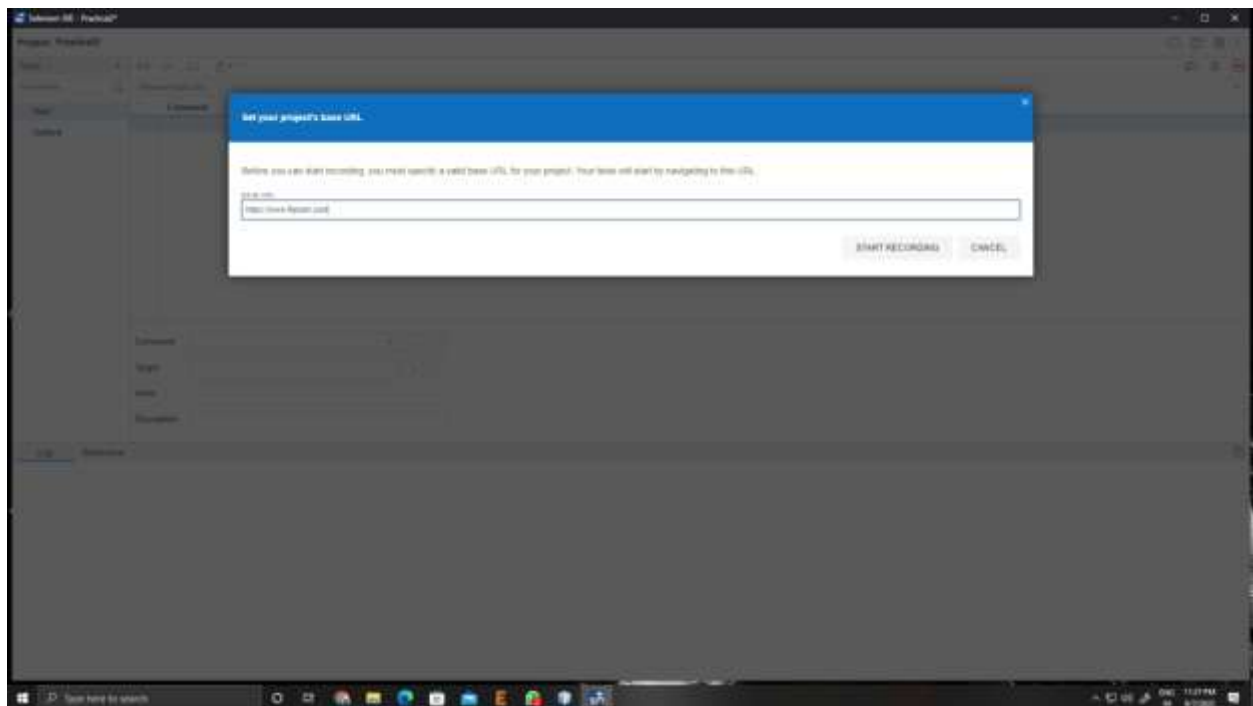
Aim:

Conduct a test suite for any 2 web sites.

Website 1

Test

url:



Output:

Flipkart Search for products, brands and more

Electronics • TVs & Appliances • Men • Women • Baby & Kids • Home & Furniture • Sports, Books & More • Flights • Offer Zone

Filters

Smart Watches

PRICE

Min. Max. ₹15000+

BRANDS

REAL TRAPPE

DESIGNER

CUSTOMER RATINGS

4.5 & above

3.5 & above

2.5 & above

1.5 & above

Smart Watches

Smart Watches

Fire-Bolt Hurricane Smartwatch

₹1,799

1.3 Color HD Full Touch Screen with 240x240 pixel resolution

2.5D Curved Glass for Best Retina HD Color Display with Automatic Motion Recognition

SpO2 Monitoring, Continuous Heart Rate Tracking, 50 Sports Modes, IP67 Water Resistance

Up to 7 Days Battery Life & Standby Time 15 Days

Find Phone Feature - Use this feature to find your smartphone easily Connected with all Notifications Alerts

Touchscreen

Fitness & Outdoor Health & Medical

Battery Standtime: Up to 15 days

Contact Information: Visit our Flipkart Store for more information. Replacement will be given by the brand against Manufacturing Defects.

Fire-Bolt Talk Pro Bluetooth Calling Smartwatch Smartwatch

₹2,799

Bluetooth Calling Smartwatch: Answer & Make Calls Directly from The Smartwatch (In Built Speaker & Microphone)

Listen to Songs and Enjoy HD Calls on this smartwatch (High Resolution 300x300)

This smartwatch has a round display with High Resolution of 300x300 Pixels full touch 1.3 inch HD Screen and ultra high colour resolution (30 Sports Modes To Track) Track each activity efficiently and analyse performance based upon speed history (Bike, Health Tracking)

This watch is your go-to health tracking device. Track your blood oxygen (SpO2), Heart Rate, Blood Pressure and even your Sleep (Play Games On Your Watch)

Play your favourite Bird Game and 2000 Games on your watch (Shooting, Action, Puzzle, Sport) through the various functions in the menu bar by simply touching the touch (Smartphone Notifications) Get all your mobile phone notifications on the watch and never miss out any meetings, birthday or calls (P40)

Water Resistance: up to 50m and is waterproof too

WiFi Call Function

Touchscreen

Fitness & Outdoor

Battery Standtime: Up to 15 days

Selenium IDE

Project: Project1

Recording: Start

Test Suite

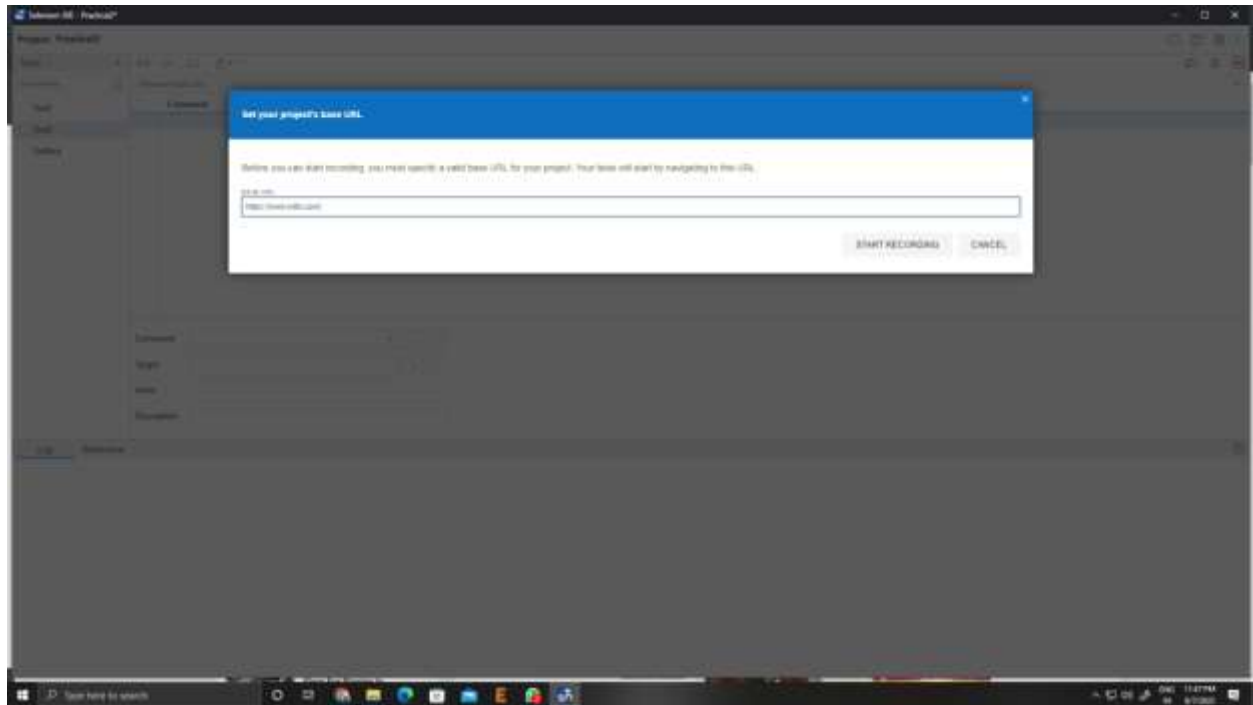
Step	Command	Target	Status
1	open	chrome://	OK
2	sendKeysToText	username	OK
3	click	login	OK
4	click	logout	OK
5	click	logout	OK
6	click	logout	OK
7	click	logout	OK
8	click	logout	OK
9	click	logout	OK
10	click	logout	OK
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312	click	logout	OK
313	click	logout	

Website 2

Test 2

Test

url:



Output:

Practical No.3:

Aim:

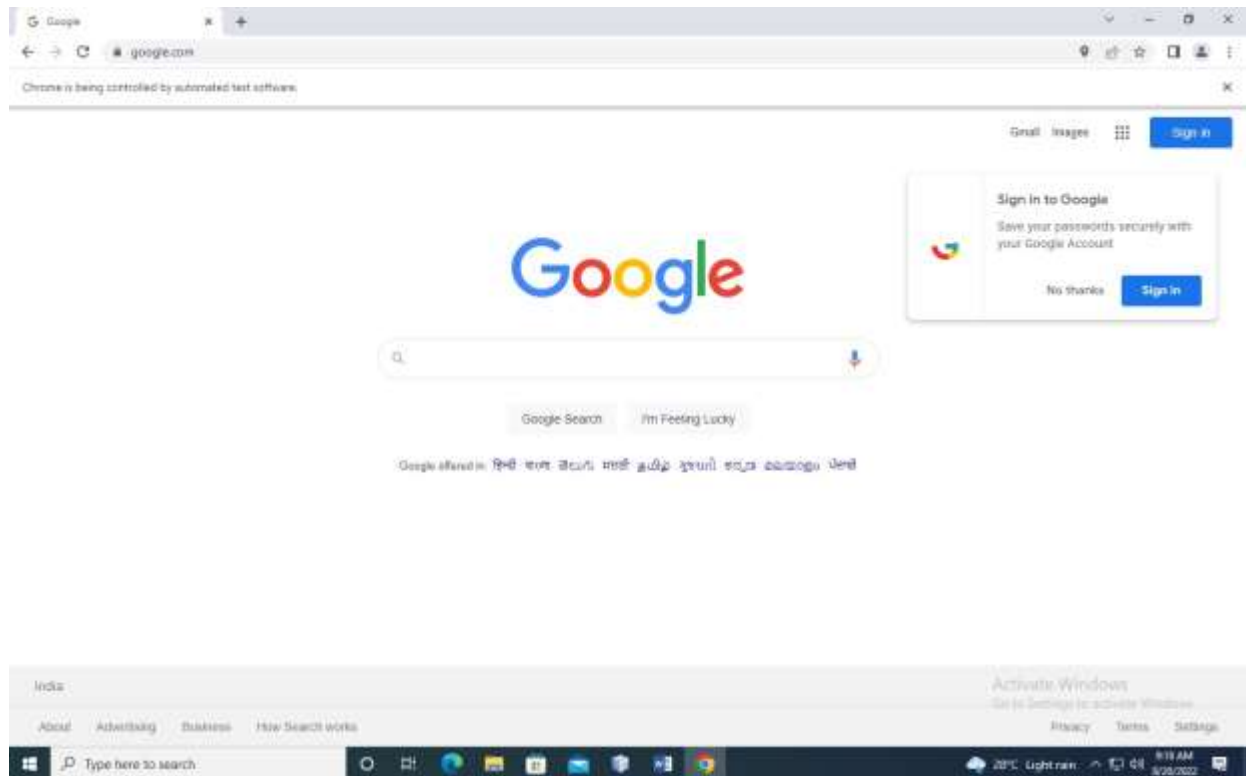
Install Selenium Client & WebDriver and demonstrate it using a script in Java.

Code:

```
package stqa3;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
/**
 *
 * @author sies
 */
public class STQA3
{

    public static void main(String[] args)
    {
        System.setProperty("webdriver.chrome.driver","C:/Users/sies/Desktop/New
folder/chromedriver_104.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.google.com");
        driver.manage().window().maximize();
        //driver.close();
    }
}
```

Output:



Practical No.4:

Aim:

Write and test a program to login a specific webpage.

Code:

Index.php :

```
<!DOCTYPE html>
```

```
<!--
```

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.


```
-->
<html>
  <head>
    <meta charset="UTF-8">
    <title></title>
  </head>
  <body>
    <form action="Welcome.html" method="post" name="signup-form">
      <div class="form-element">
        <label>Username</label>
        <input id="username" type="text" name="username" pattern="[a-zA-Z0-9]+" required />
      </div>
      <div class="form-element">
        <label>Password</label>
        <input id="password" type="password" name="password" required />
      </div>
      <button id="submit" type="submit" name="submit" value="submit">Submit</button>
    </form>
  </body>
</html>
```

Welcome.html :

```
<!DOCTYPE html>
```

```
<!--
```

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

And open the template in the editor.

```
→
```

```
<html>
  <head>
    <title>Welcome</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <div>Welcome </div>
  </body>
</html>
```

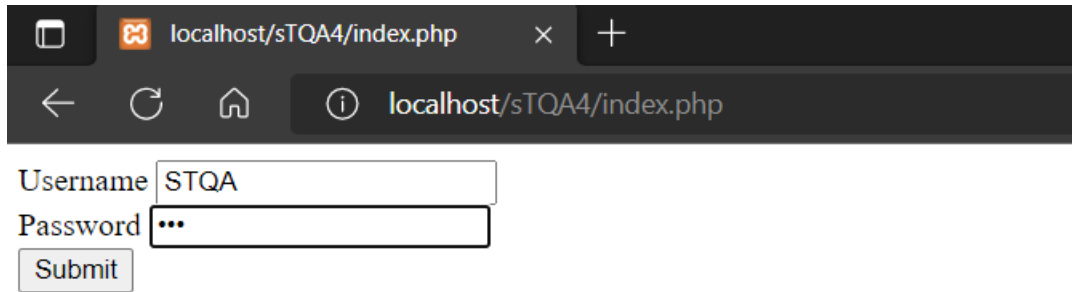
STQA4.java:

```
package stqa4;
```

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

public class STQA4
{
    public static void main(String[] args)
    {
        System.setProperty("webdriver.chrome.driver","D:/User/Desktop/New
Folder/chromedriver_104.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("http://localhost:81/login.php");
        driver.findElement(By.id("username")).sendKeys("admin");
        driver.findElement(By.id("password")).sendKeys("123");
        driver.findElement(By.id("submit")).click();
        if(driver.getTitle().contains("Welcome"))
        {
            System.out.println("Logged in successfully");
        }
        else
        {
            System.out.println("Failed to login");
        }
        //driver.quit();
    }
}
```

Output:

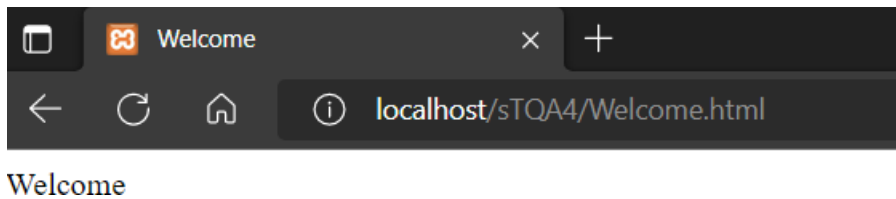


localhost/sTQA4/index.php

← ↻ 🏠 ⓘ localhost/sTQA4/index.php

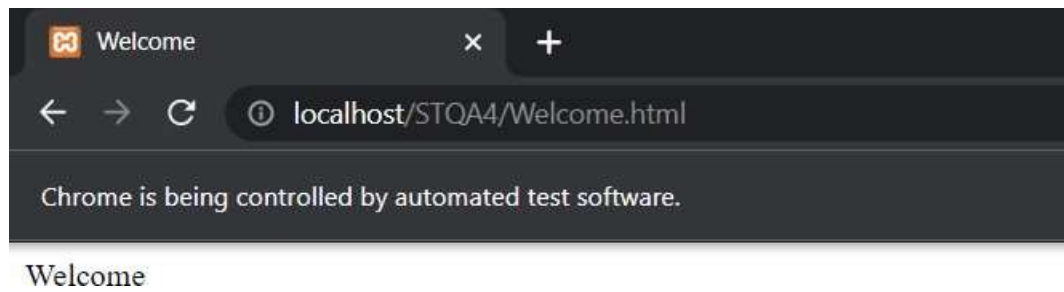
Username

Password



```
Output - STQA4 (run) x
run:
Starting ChromeDriver 105.0.5195.52 (412c55e518936d9a7d57260d2b25c2ae6a2fa35-ref0/branch-heads/5195@{#553}) on port 18658
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 13, 2022 1:14:55 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Logged successfully
BUILD SUCCESSFUL (total time: 8 seconds)
```

Automation :



Practical No.5:

Aim:

Write and test a program to provide total number of objects present / available on the page.

Code:

STQA5.java:

```
package stqa5;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class STQA5
{
```

```

public static void main(String[] args)
{
    System.setProperty("webdriver.chrome.driver","D:/User/Desktop/New
Folder/chromedriver_104.exe");
    WebDriver driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("https://www.google.com");
    List<WebElement> links = driver.findElements(By.tagName("a"));
    List<WebElement> buttons = driver.findElements(By.tagName("button"));
    List<WebElement> fields = driver.findElements(By.tagName("input"));
    System.out.println("Total no. of links: " + links.size());
    System.out.println("Total no. of buttons: " + buttons.size());
    System.out.println("Total no. of fields: " + fields.size());
    driver.quit();
}
}

```

Output:

```

Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1663261249.484][WARNING]: This version of ChromeDriver has not been tested with Chrome version 105.
Sep 15, 2022 10:30:49 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Total no. of links: 25
Total no. of buttons: 1
Total no. of fields: 8
BUILD SUCCESSFUL (total time: 7 seconds)

```

Practical No.6:

Aim:

Write and test a program to update 10 student records into table into Excel file.

Code:

Book1.xls:

A	B	C	D	E	F	G
Roll_no	Name	Java	Python	Web_Programming	Total	
1	Alex	90	90	95	275	
2	Bob	30	35	20	85	
3	Chris	60	40	70	170	
4	Karl	40	30	20	90	
5	Mark	50	80	70	200	
6	Joel	70	84	65	219	
7	Tommy	60	70	65	195	
8	Ellie	80	60	55	195	
9	Abby	40	60	75	175	
10	Arthur	50	65	35	150	

package stqa6;

```
import java.io.FileInputStream;
import java.io.FileOutputStream;
import jxl.Sheet;
import jxl.Workbook;
import jxl.write.Label;
import jxl.write.WritableSheet;
import jxl.write.WritableWorkbook;
```

public class STQA6

```
{
    public static void main(String[] args) throws Exception
    {
        FileInputStream fi = new FileInputStream("C:\\Users\\sies\\Desktop\\Book1.xls");
        Workbook w = Workbook.getWorkbook(fi);
        Sheet s = w.getSheet(0);
        String a[][] = new String[s.getRows()][s.getColumns()];
        FileOutputStream fo = new FileOutputStream("C:\\Users\\sies\\Desktop\\Book2.xls");
        WritableWorkbook ww = Workbook.createWorkbook(fo);
        WritableSheet ws = ww.createSheet("result1", 0);

        for (int i = 0; i < s.getRows(); i++)
        {
            for (int j = 0; j < s.getColumns(); j++)
            {
                a[i][j] = s.getCell(j, i).getContents();
                Label l = new Label(j, i, a[i][j]);
                ws.addCell(l);
            }
        }
    }
```

```

Label l = new Label(6, 0, "Result");
ws.addCell(l);

for (int i = 1; i < s.getRows(); i++)
{
    for (int j = 1; j < s.getColumns(); j++)
    {
        a[i][j] = s.getCell(j, i).getContents();
        int x = Integer.parseInt(a[i][j]);
        if (x/3 >=35)
        {
            Label l1 = new Label(6, i, "pass");
            ws.addCell(l1);
        }
        else
        {
            Label l1 = new Label(6, i, "fail");
            ws.addCell(l1);
            break;
        }
    }
}
wwb.write();
wwb.close();
}
}

```

Output:

Book2.xls:

	A	B	C	D	E	F	G	H
1	Roll_no	Name	Java	Python	Web_Programmi	Total	Result	
2	1	Alex	90	90	95	275	pass	
3	2	Bob	30	35	20	85	fail	
4	3	Chris	60	40	70	170	pass	
5	4	Karl	40	30	20	90	fail	
6	5	Mark	50	80	70	200	pass	
7	6	Joel	70	84	65	219	pass	
8	7	Tommy	60	70	65	195	pass	
9	8	Ellie	80	60	55	195	pass	
10	9	Abby	40	60	75	175	pass	
11	10	Arthur	50	65	35	150	pass	
12								
13								
14								
15								
16								
17								

Practical No.7:

Aim:

Write and test a program to select the number of students who have scored more than 60 in any one subject.

Code:

Book1.xls:

A	B	C	D	E	F	G
Roll_no	Name	Java	Python	Web_Programming	Total	
1	Alex	90	90	95	275	
2	Bob	30	35	20	85	
3	Chris	60	40	70	170	
4	Karl	40	30	20	90	
5	Mark	50	80	70	200	
6	Joel	70	84	65	219	
7	Tommy	60	70	65	195	
8	Ellie	80	60	55	195	
9	Abby	40	60	75	175	
10	Arthur	50	65	35	150	

```
package stqa7;
```

```
import java.io.FileInputStream;
import java.io.FileOutputStream;
import jxl.Sheet;
import jxl.Workbook;
import jxl.write.Label;
import jxl.write.WritableSheet;
import jxl.write.WritableWorkbook;
```

```
public class STQA7
{
```



```

public static void main(String[] args) throws Exception
{
    FileInputStream fi = new FileInputStream("C:\\Users\\sies\\Desktop\\Book1.xls");
    Workbook w = Workbook.getWorkbook(fi);
    Sheet s = w.getSheet(0);
    String a[][] = new String[s.getRows()][s.getColumns()];
    FileOutputStream fo = new FileOutputStream("C:\\Users\\sies\\Desktop\\Book3.xls");
    WritableWorkbook ww = Workbook.createWorkbook(fo);
    WritableSheet ws = ww.createSheet("result1", 0);
    System.out.println();

    for (int i = 0; i < s.getRows(); i++)
    {
        String temp[] = new String[s.getColumns()];
        boolean flag = false;
        for (int j = 0; j < s.getColumns(); j++)
        {
            temp[j] = s.getCell(j, i).getContents();
            if(i>=1 && j>=2 && j<=4)
            {
                if(Integer.parseInt(temp[j]) >=60)
                {
                    flag=true;
                }
            }
        }
        if(flag)
        {
            for(int k = 0; k < temp.length; k++)
            {
                Label l2 = new Label(k, i, temp[k]);
                ws.addCell(l2);
            }
        }
        ww.write();
        ww.close();
    }
}

```

Output:

Book3.xls:

	A	B	C	D	E	F	G	H
1								
2	1	Alex	90	90	95	275		
3								
4	3	Chris	60	40	70	170		
5								
6	5	Mark	50	80	70	200		
7	6	Joel	70	84	65	219		
8	7	Tommy	60	70	65	195		
9	8	Ellie	80	60	55	195		
10	9	Abby	40	60	75	175		
11	10	Arthur	50	65	35	150		
12								
13								
14								

Practical No.8:

Aim:

Write and test a program to get the number of items in a list / combo box.

Code:

STQA8.java:

```
package stqa8;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class STQA8
{
    public static void main(String[] args)
    {
        System.setProperty("webdriver.chrome.driver","D:/User/Desktop/New
Folder/chromedriver_104.exe");
        WebDriver driver=new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("http://localhost:81/list_combobox.html");
```

```
List<WebElement> lists = driver.findElements(By.xpath("//ol/li"));
System.out.println("Total no. of list: "+ lists.size());
//driver.quit();
}
}
```

List1.html:

```
<!DOCTYPE html>
<html>
<body>

<h2>List</h2>
<ol>
<li>Sumanth </li>
<li>Anantha </li>
<li>Afzal </li>
</ol>

</body>
</html>
```

Output:

```
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1664183439.178][WARNING]: This version of ChromeDriver has not been tested with Chrome version 105.
Sep 26, 2022 2:40:39 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Total no. of list: 3
BUILD SUCCESSFUL (total time: 3 seconds)
```

Practical No.9:

Aim:

Write and test a program to count the number of check boxes on the page checked and unchecked count.

Code:

```
package stqa9;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class STQA9
{
    public static void main(String[] args)
    {
        System.setProperty("webdriver.chrome.driver","D:/User/Desktop/New
Folder/chromedriver_104.exe");
        WebDriver driver=new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("http://localhost:81/list_combobox.html");
        List<WebElement> checkboxes = driver.findElements(By.cssSelector("input[type='checkbox']"));
        int checked = 0, unchecked=0;
        for (WebElement checkbox : checkboxes){
            if (checkbox.isSelected()){
                checked++;
            }else{
                unchecked++;
            }
        }
        System.out.println("Total no. of checkbox is checked: "+checked);
        System.out.println("Total no. of checkbox is not checked: "+unchecked);
        driver.quit();
    }
}
```

List_Combobox.html:

```
<!DOCTYPE html>
<html>
<body>

<h2>ComboBox</h2>

<label for="colors">Choose a color: </label>
<select name="colors" id="color">
    <option value="Black">Black</option>
```

```
<option value="White">White</option>
<option value="Red">Red</option>
<option value="Yellow">Yellow</option>
</select>
</br></br>
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
<label for="vehicle3">Bike</label><br>

<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
<label for="vehicle3">Car</label><br>

<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
<label for="vehicle3">Boat</label><br>

</body>
</html>
```

Output:

```
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1664183081.286][WARNING]: This version of ChromeDriver has not been tested with Chrome version 105.
Sep 26, 2022 2:34:41 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Total no. of checkbox is checked: 0
Total no. of checkbox is not checked: 3
BUILD SUCCESSFUL (total time: 4 seconds)
|
```
