

## Assignment: 02

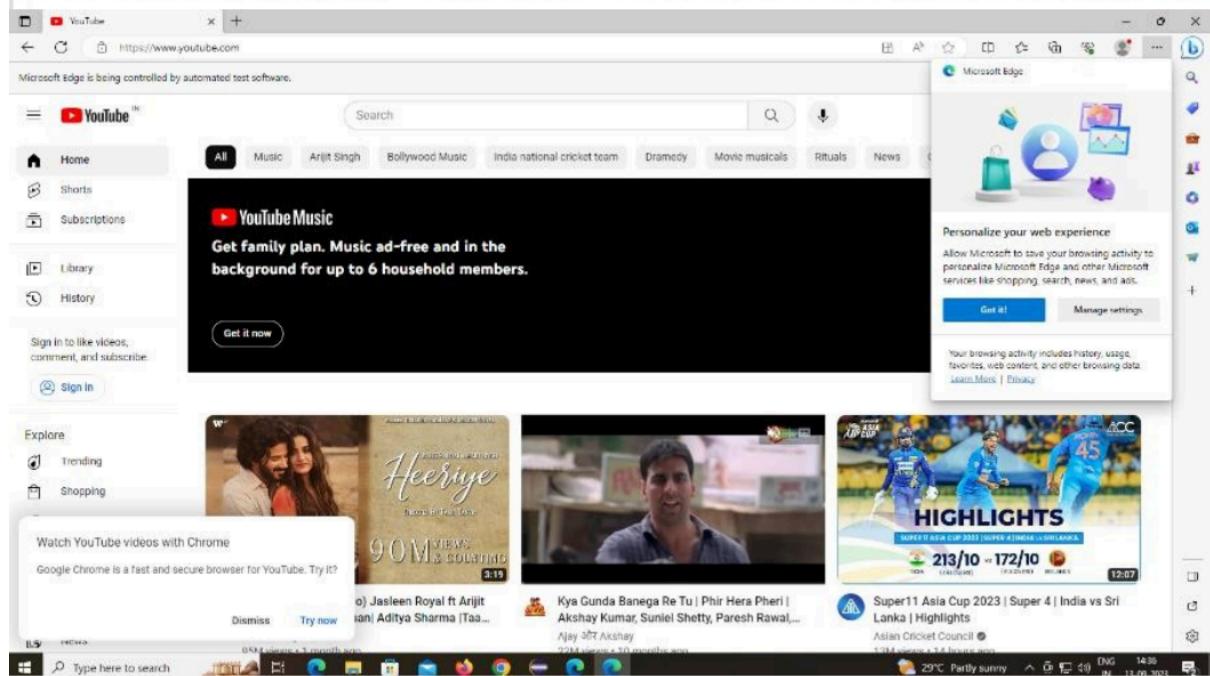
### **Q1) Implement Web Drivers on Chrome and Firefox Browsers**

**Code: -**

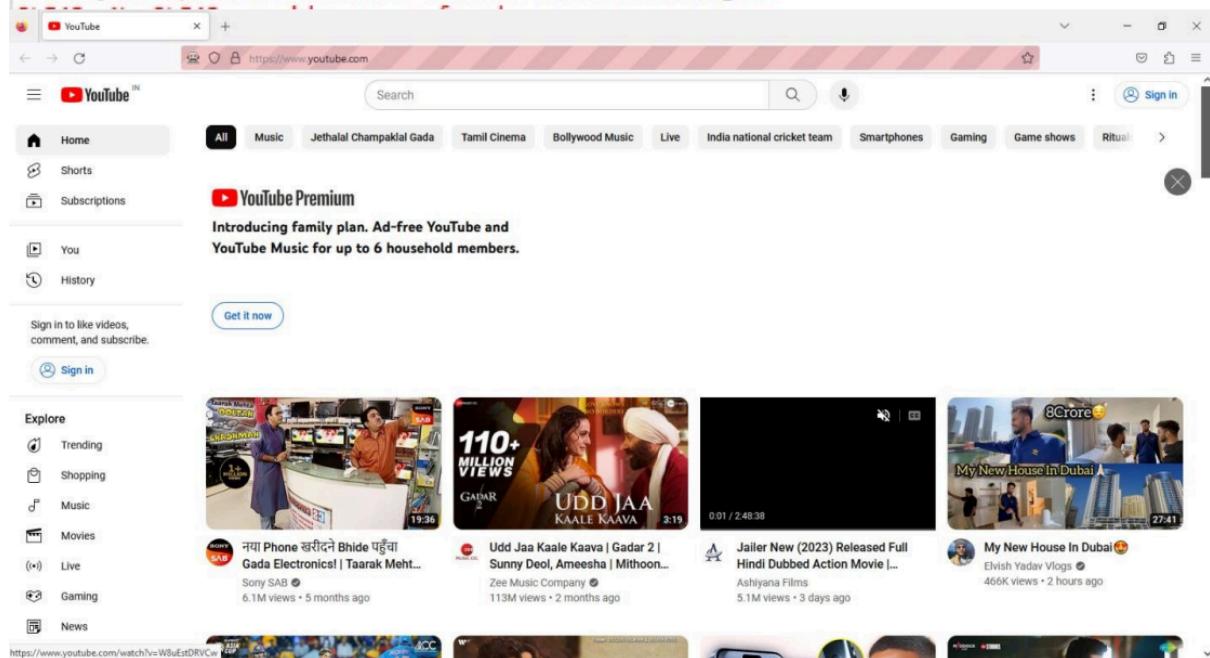
```
package demo;
import java.util.Scanner;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.firefox.FirefoxDriver; import
org.openqa.selenium.edge.EdgeDriver; public class Practical_1 {
public static void main(String args[]) { Scanner sc=new Scanner(System.in);
System.out.print("Enter your option: 1 Chrome 2 Firefox 3 Microsoft Edge");
int option= sc.nextInt();
switch(option) { case 1:
System.setProperty("webdriver.chrome.driver",
"D:\\selenium\\chromedriver.exe");
WebDriver wd=new ChromeDriver(); wd.get("https://www.youtube.com/");
wd.manage().window().maximize(); break;
case 2:
System.setProperty("webdriver.firefox.driver",
"D:\\selenium\\geckodriver.exe");
WebDriver wd1=new FirefoxDriver(); wd1.get("https://www.youtube.com/");
wd1.manage().window().maximize(); break;
case 3:
System.setProperty("webdriver.edge.driver",
"D:\\selenium\\edgedriver_win64\\msedgedriver.exe");
WebDriver wd2=new EdgeDriver(); wd2.get("https://www.youtube.com/");
wd2.manage().window().maximize(); break;
}
}
}
```

## **Output: -**

```
Practical_1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe
Enter your option: 1 Chrome 2 Firefox 3 Microsoft Edge 1
```



Enter your option: 1 Chrome 2 Firefox 3 Microsoft Edge 2



Enter your option: 1 Chrome 2 Firefox 3 Microsoft Edge3

YouTube https://www.youtube.com

Microsoft Edge is being controlled by automated test software.

YouTube IN

Search

All Music Jethalai Champakil Gada Tamil Cinema Bollywood Music Gaming India national cricket team History

YouTube Music

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Tarak Mehta Ka Oootah Chashmah - तारक मेहता का उट्टा चशमा - 367 - Full Episode

EP. 367 20:41

110+ MILLION VIEWS

GADAR 2 UDD JAA KAALE KAAVA 3:19

JAILER 2:48:39

Tarak Mehta Ka Oootah Chashmah - तारक मेहता का उट्टा चशमा - 367 - Full Episode

Sony SAB 20:41

Udd Jaa Kaale Kaava | Gadar 2 | Sunny Deol, Ameesha | Mithoon, Udit N, Alka Y | Uttam... Zee Music Company 3:19

Jailer New (2023) Released Full Hindi Dubbed Action Movie | Rajnikant New Blockbuster... Ashiyana Films 2:48:39

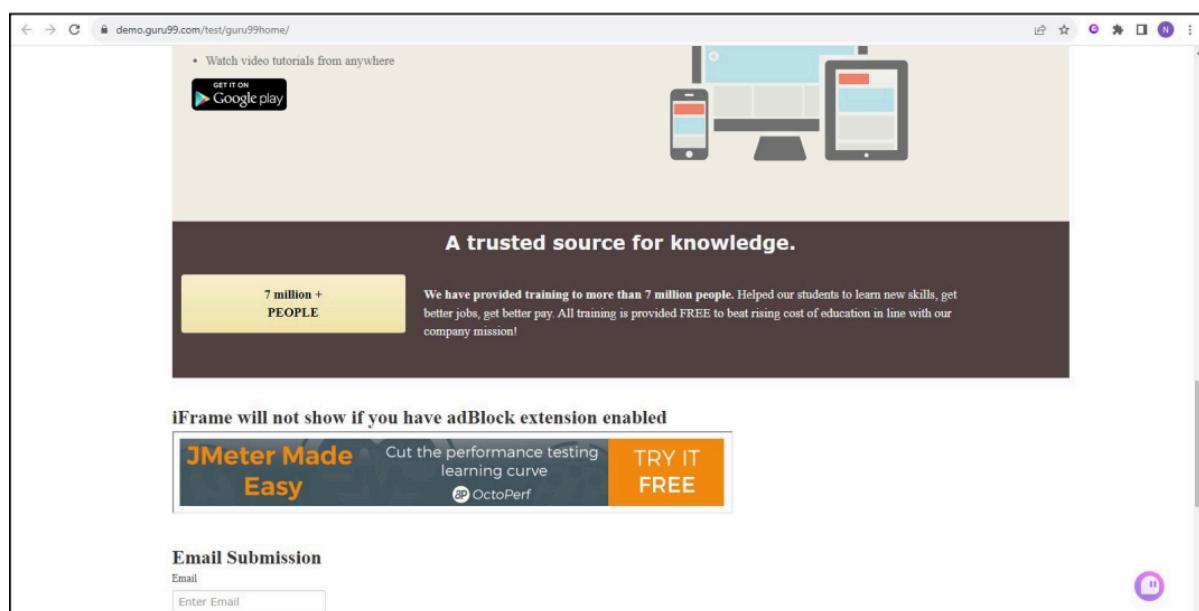
## Q2) Demonstrate Handling multiple frames in selenium

Code: -

```
package p;
import java.awt.Desktop.Action; 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.interactions.Actions; public class nestedframe2 {
public static void main(String[] args) {
```

```
System.setProperty("webdriver.chrome.driver","C:\\Selenium\\Chromedriver.exe" );
WebDriver wd = new ChromeDriver();
wd.get("https://demo.guru99.com/test/guru99home/");
wd.manage().window().maximize();
wd.switchTo().frame("a077aa5e");
wd.findElement(By.xpath("/html/body/a/img")).click();
}
}
```

Output: -



← → × guru99.com/live-selenium-project.html

 GURU99 Home Testing SAP Web Must Learn Big Data Live Project AI

Selenium Live Project: FREE Real Time Project for Practice

By: Krishna Rungta Updated September 9, 2023

 **Project Summary**

This project will put you in an online Corporate Test Environment. You will be automating Selenium test cases for a demo banking website. You will create & execute automation scripts and have an opportunity to compare it with sample scripts created by our experts in real-time.

 **Completion Time**

The project will last 7 days. You will be sent 1 email every 24 hours with your work allocation for that day. It is **FREE!**

 **Join the Virtual Experience Program Here**

**Join Our Real-Time Selenium Testing Project**

### **Q3) Implement Browser Commands and navigation commands**

**Code: -**

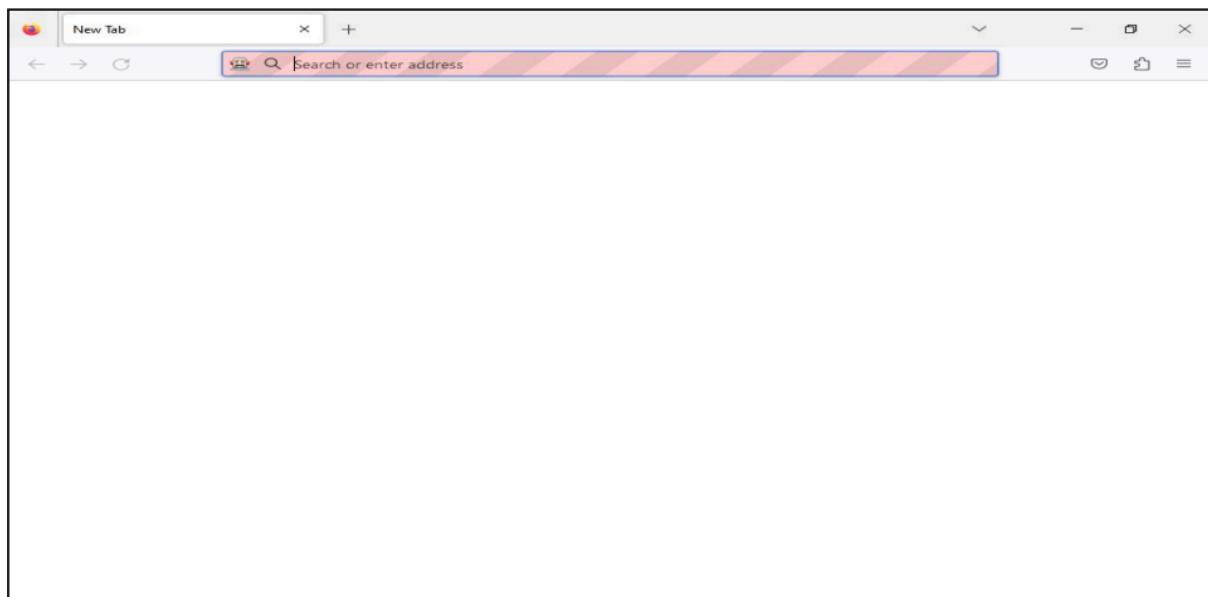
```
package com.st;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class BrowserCommands { public static void main(String[] args) {
// TODO Auto-generated method stub
System.setProperty("webdriver.gecko.driver","D:\\SQTA\\Selenium\\chromedriver\\geckodriver
.exe");
WebDriver driver = new FirefoxDriver(); String url =
("https://www.google.co.in/"); driver.get(url);
String title = driver.getTitle();
int titleLength = driver.getTitle().length(); System.out.println("Title of the page
is " + title); System.out.println("Length of the title is : " +titleLength); String
actualurl = driver.getCurrentUrl();
if(actualurl.equals("https://www.google.co.in/")) {
System.out.println("Verification Successful - The correct url is opened.");
}

else {
System.out.println("Verification Failed - An incorrect url is opened.");
}
String pageSource = driver.getPageSource(); int pageSourceLength =
pageSource.length();
System.out.println("Total length of the Page Source is: "+ pageSourceLength);
driver.close();
}
}
```

## Output: -

```
Console X
terminated> BrowserCommands [Java Application] C:\Users\Student\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230801-195
1695287580925 geckodriver    INFO    Listening on 127.0.0.1:48635
1695287581132 mozrunner::runner    INFO    Running command: "C:\\Program Files\\Mozilla Firefox\\firefox.exe" "--marionette"
console.warn: services.settings: Ignoring preference override of remote settings server
console.warn: services.settings: Allow by setting MOZ_REMOTE_SETTINGS_DEVTOOLS=1 in the environment
1695287581487 Marionette    INFO    Marionette enabled
Dynamically enable window occlusion 0
1695287581821 Marionette    INFO    Listening on port 53030
1695287581861 RemoteAgent    WARN    TLS certificate errors will be ignored for this session
Sep 21, 2023 2:43:04 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Title of the page is Google
Length of the title is : 6
Verification Successful - The correct url is opened.
Total length of the Page Source is: 182558
```



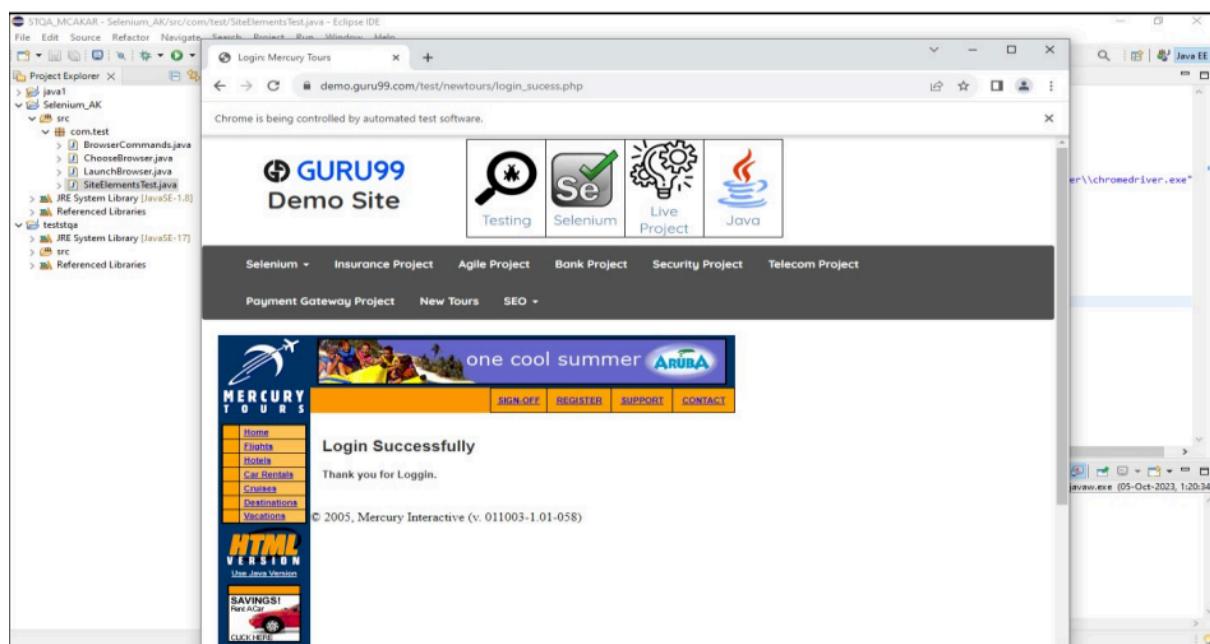
#### **Q4) Implement the find element command**

**Code: -**

```
package com.test;
import org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.By;
import org.openqa.selenium.WebDriver; public class SiteElementsTest {
public static void main(String[] args) {
// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","C:\\\\Users\\\\Student\\\\Downloads\\\\SeleniumJars\\\\SeleniumJars\\\\chromedriver\\\\chromedriver.exe");
WebDriver wd = new ChromeDriver();
wd.get("https://demo.guru99.com/test/newtours/");
wd.findElement(By.name("userName")).sendKeys("admin");
wd.findElement(By.name("password")).sendKeys("admin");
wd.findElement(By.name("submit")).click();
wd.findElement(By.linkText("REGISTER")).click();
}
}
```

**Output: -**



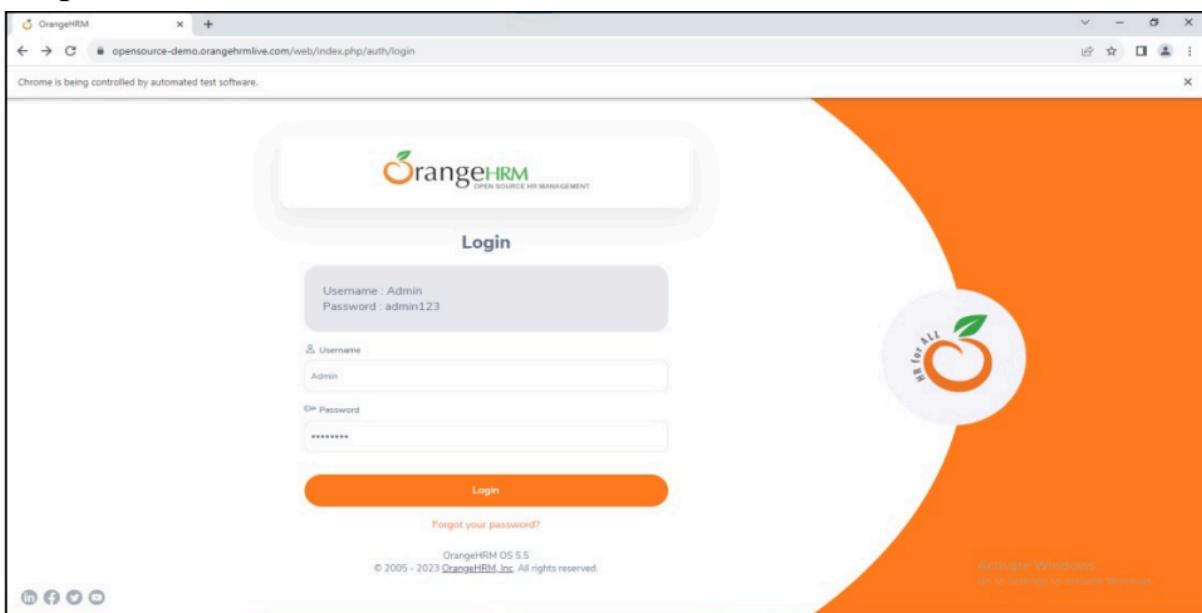
## Q5) Demonstrate the Locator(id, css selector, path)

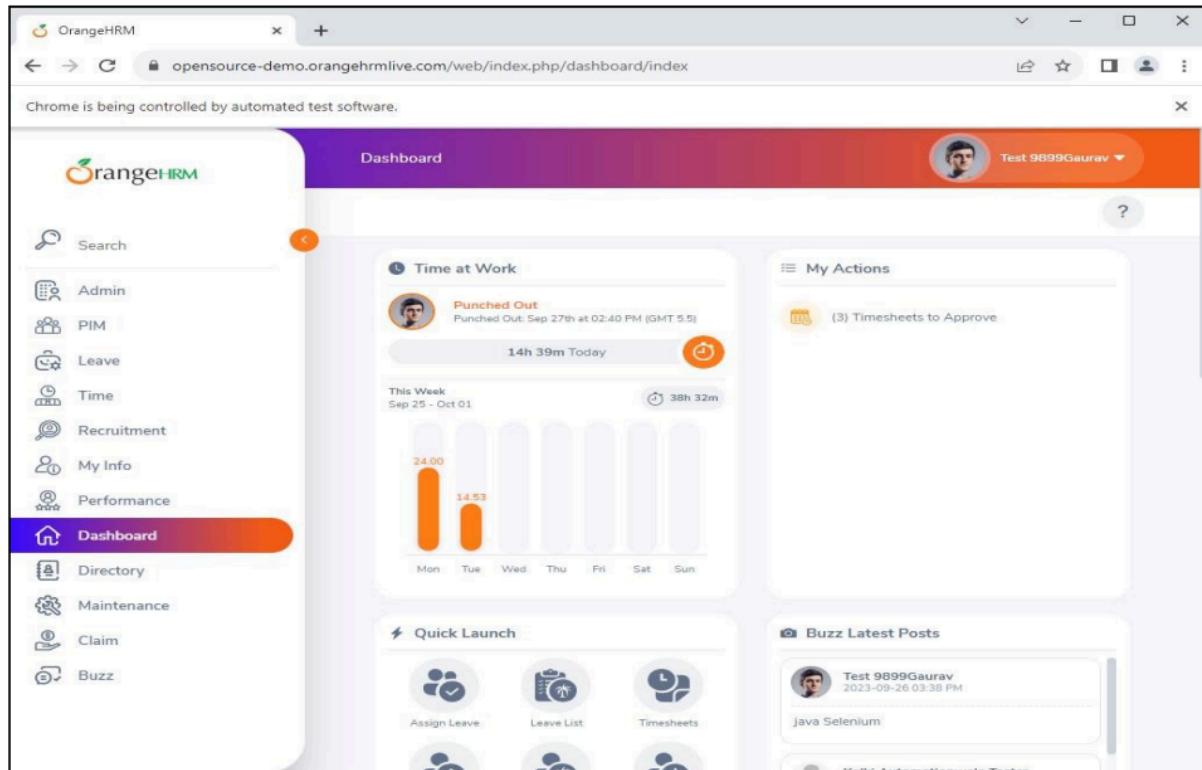
**Code(id): -**

```
package stqa;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; public class DemoLocator
{
public static void main(String[] args) throws Exception {

//locator      > name class name
System.setProperty("webdriver.chrome.driver",
"C:\\\\Users\\\\admin\\\\Desktop\\\\Selenium
b-53\\\\chromedriver-win64\\\\chromedriver- win64\\\\chromedriver.exe");
WebDriver wd=new ChromeDriver();
wd.get("https://opensource-demo.orangehrmlive.com/");
wd.findElement(By.id("txtUsername")).sendKeys("Admin"); //locator id
wd.findElement(By.name("txtPassword")).sendKeys("admin123"); //locator
name wd.findElement(By.className("button")).click(); //locator className
}
}
```

**Output: -**





### Code(css selector): -

```
package com.test;  
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver; public class  
DemoCssSelector {  
public static void main(String[] args) {  
// TODO Auto-generated method stub  
//Demo CSS Selector
```

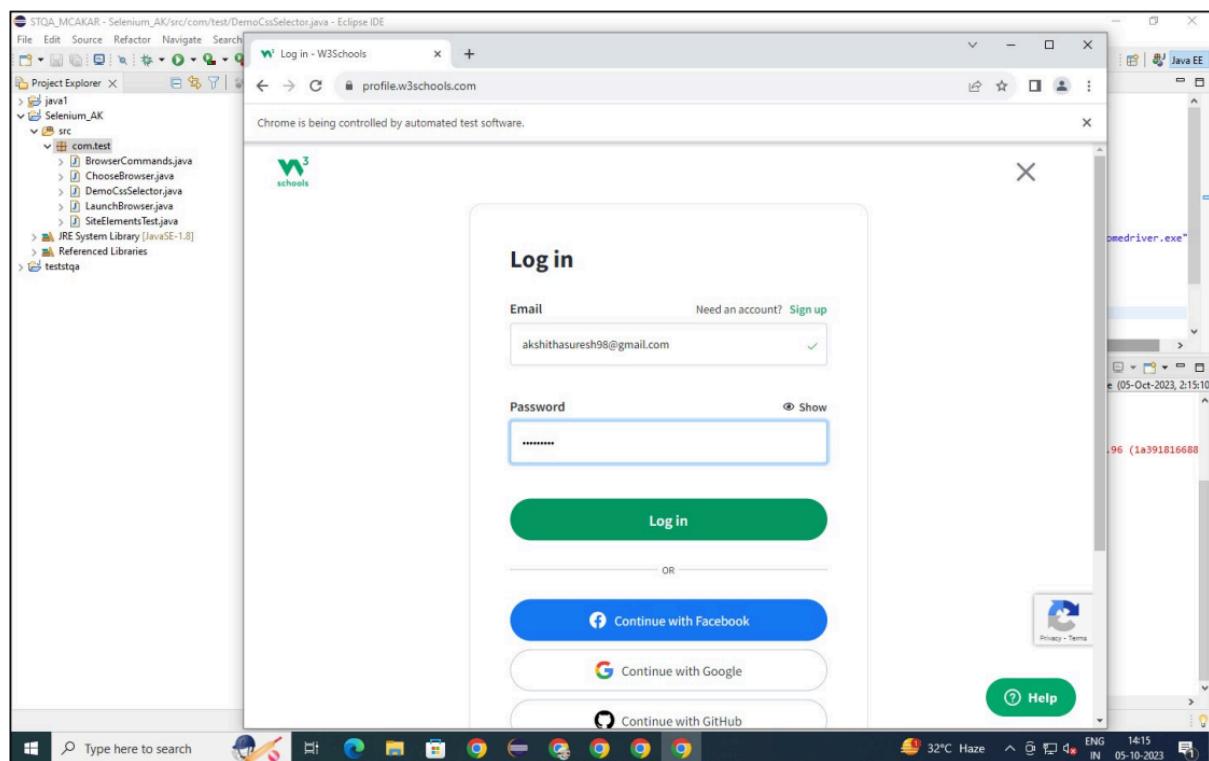
```
System.setProperty("webdriver.chrome.driver","C:\\\\Users\\\\Student\\\\Downloads\\\\  
SeleniumJars\\\\SeleniumJars\\\\chromedriver\\\\chromedriver.exe");  
WebDriver wd = new ChromeDriver();  
wd.get("https://profile.w3schools.com/");  
//tagname #id
```

```
wd.findElement(By.cssSelector("input#modalusername")).sendKeys("akshithas  
uresh98 @gmail.com");
```

```
//tagname[attribute=value of attribute]
```

```
wd.findElement(By.cssSelector("input[type=password]")).sendKeys("Ammu@1998");
//tabname.classname wd.findElement(By.cssSelector("input.button")).click();
}
}
```

## Output: -



## Code(path): -

```
package demo;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class rubywatir {
public static void main(String[] args) throws InterruptedException {
System.setProperty("webdriver.chrome.driver","D:\\selenium\\Chromedriver.exe");
});
```

```

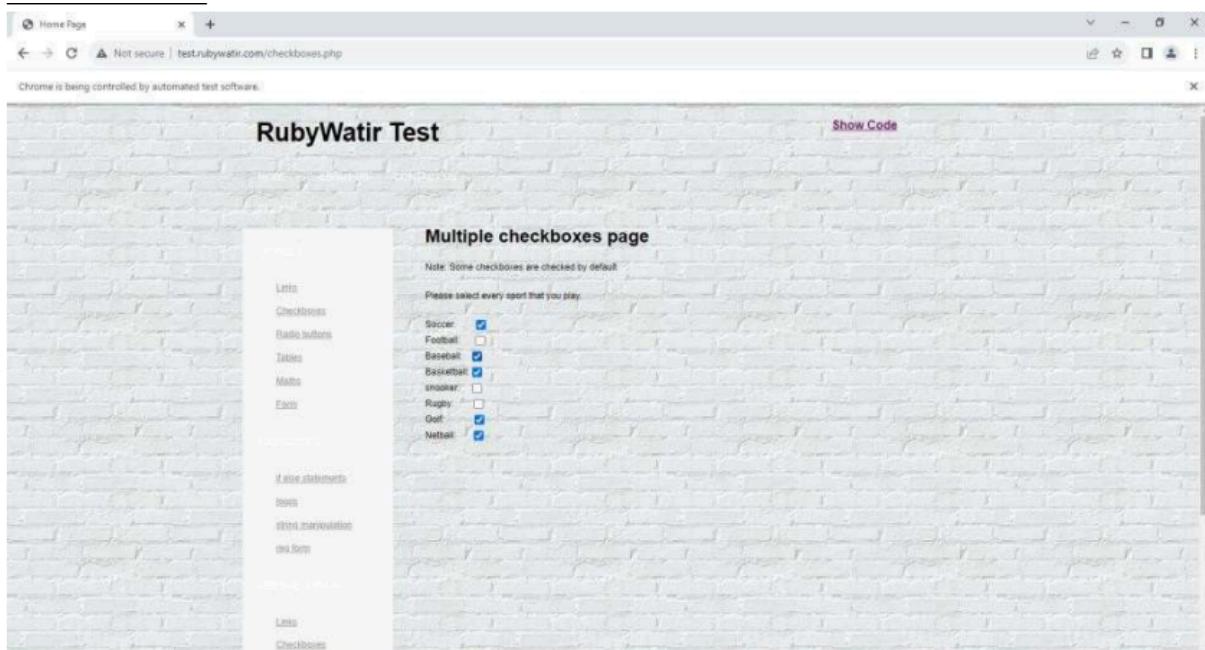
WebDriver wd= new ChromeDriver();
wd.get("http://test.rubywatir.com/");
wd.manage().window().maximize();
wd.findElement(By.linkText("Checkboxes")).click();

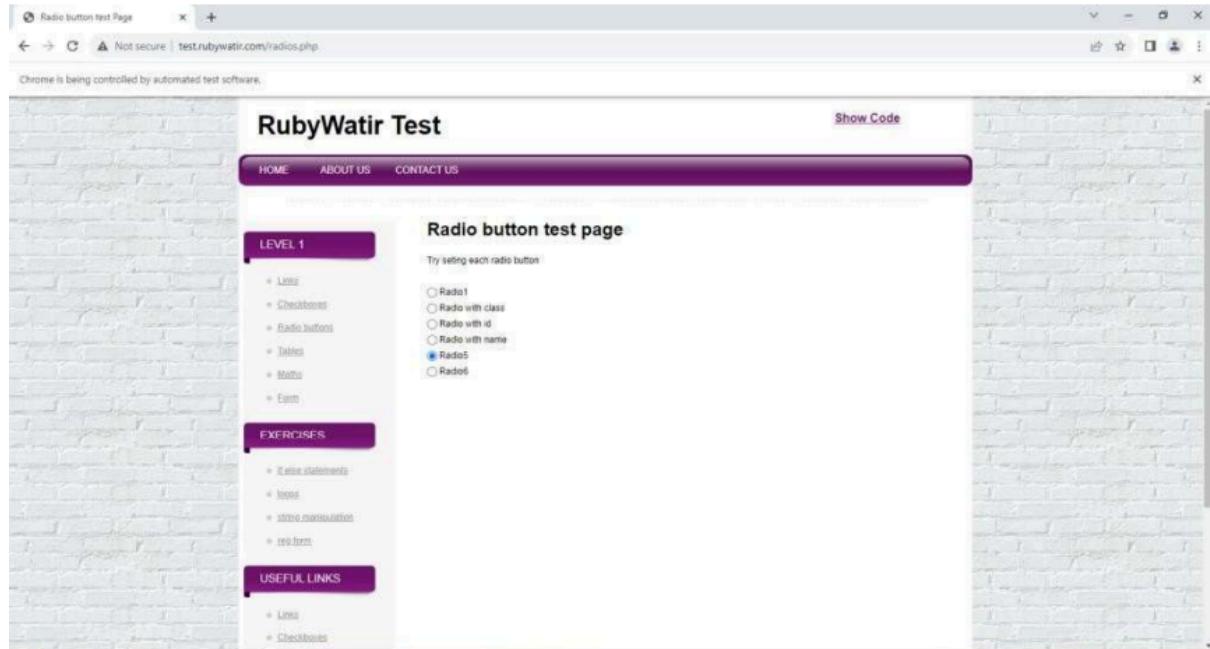
wd.findElement(By.xpath("//*[@id=\"content\"]/div/div[2]/form/input[3]")).click();
Thread.sleep(2000);
wd.navigate().back();
wd.findElement(By.linkText("Radio buttons")).click();

wd.findElement(By.xpath("//*[@id=\"content\"]/div/div[2]/p/input[5]")).click();
}
}

```

## **Output: -**





## **Q6) Demonstrate different types of alert**

**Code: -**

```
package demo;
import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; public class alerts {
public static void main(String[] args) throws InterruptedException {
System.setProperty("webdriver.chrome.driver","D:\\selenium\\Chromedriver.exe");
);
WebDriver wd= new ChromeDriver();
wd.get("https://nxtgenaiacademy.com/alertandpopup/");
wd.manage().window().maximize();

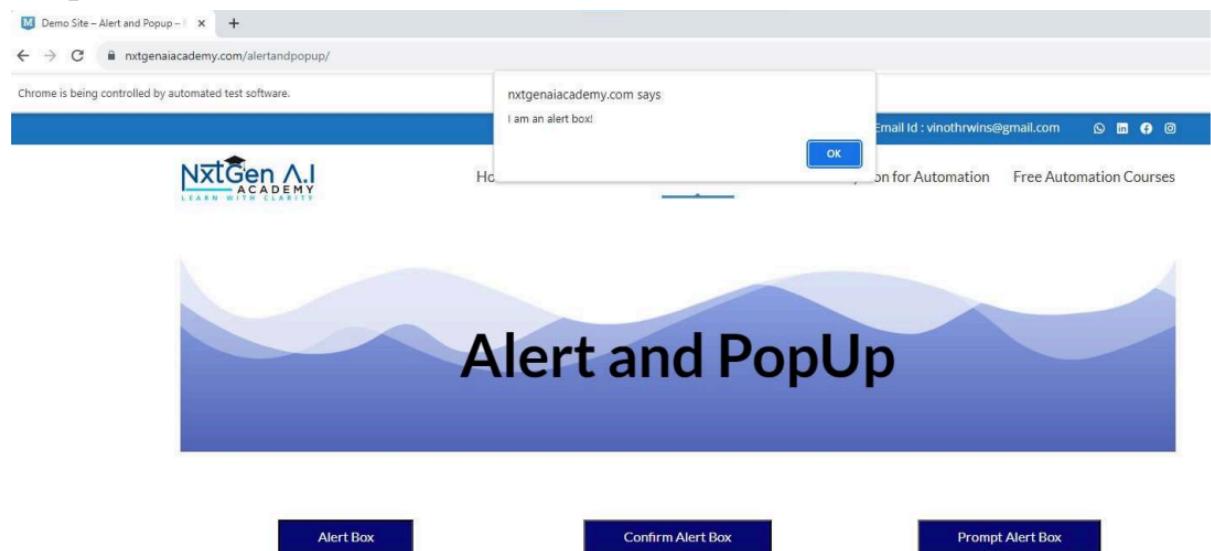
wd.findElement(By.name("alertbox")).click();
Alert alt = wd.switchTo().alert(); //shifting focus from parent to child window
Thread.sleep(4000);
alt.accept();

wd.findElement(By.name("confirmalertbox")).click(); Thread.sleep(2000);
alt.dismiss();
String txt= wd.findElement(By.id("demo")).getText(); System.out.println(txt);

wd.findElement(By.name("promptalertbox1234")).click(); alt.sendKeys("yes");
Thread.sleep(4000); alt.accept();
String txt1= wd.findElement(By.id("demoone")).getText();
System.out.println(txt1);

}
```

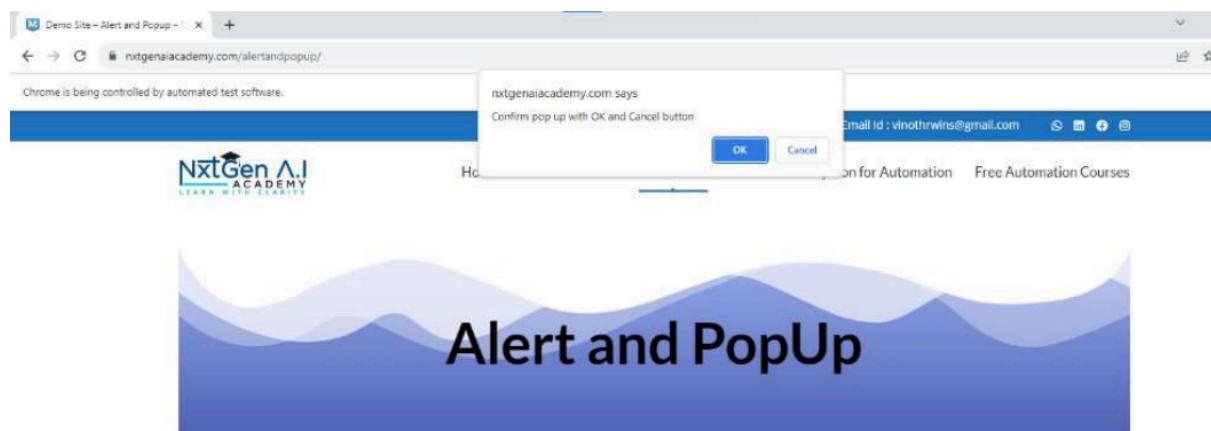
## Output: -



Alert Box

Confirm Alert Box

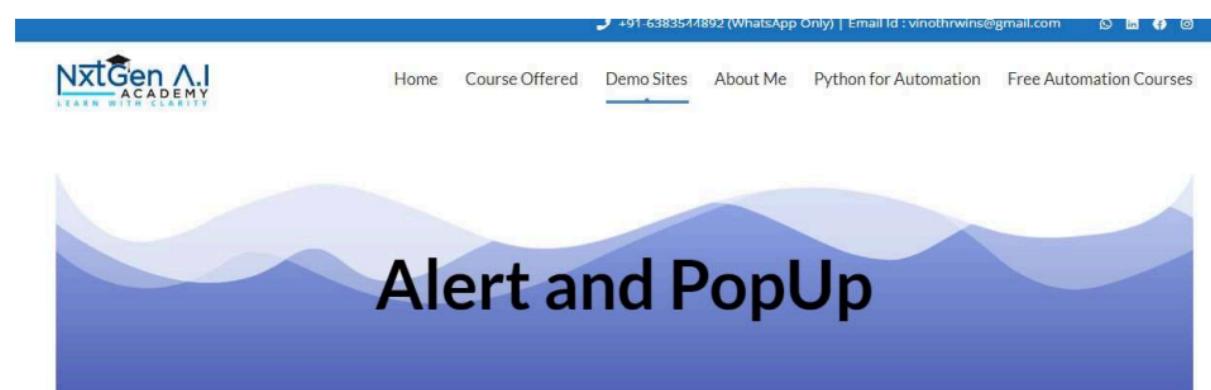
Prompt Alert Box



Alert Box

Confirm Alert Box

Prompt Alert Box

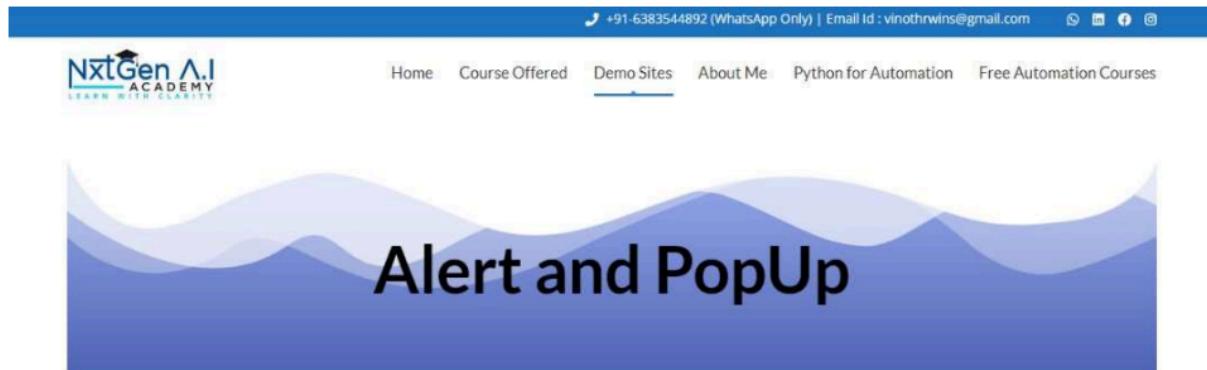
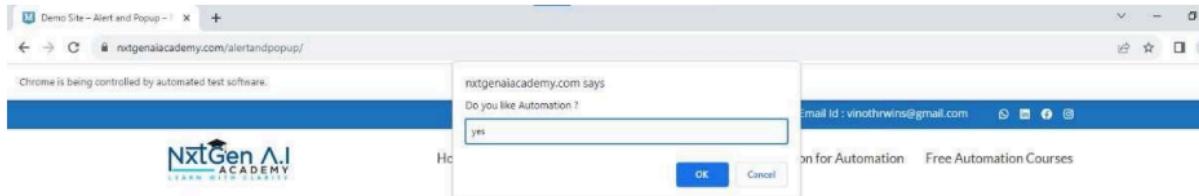


Alert Box

Confirm Alert Box

Prompt Alert Box

You clicked on OK!



## **Q7) Demonstrate: Handling DropDowns, ListBoxes**

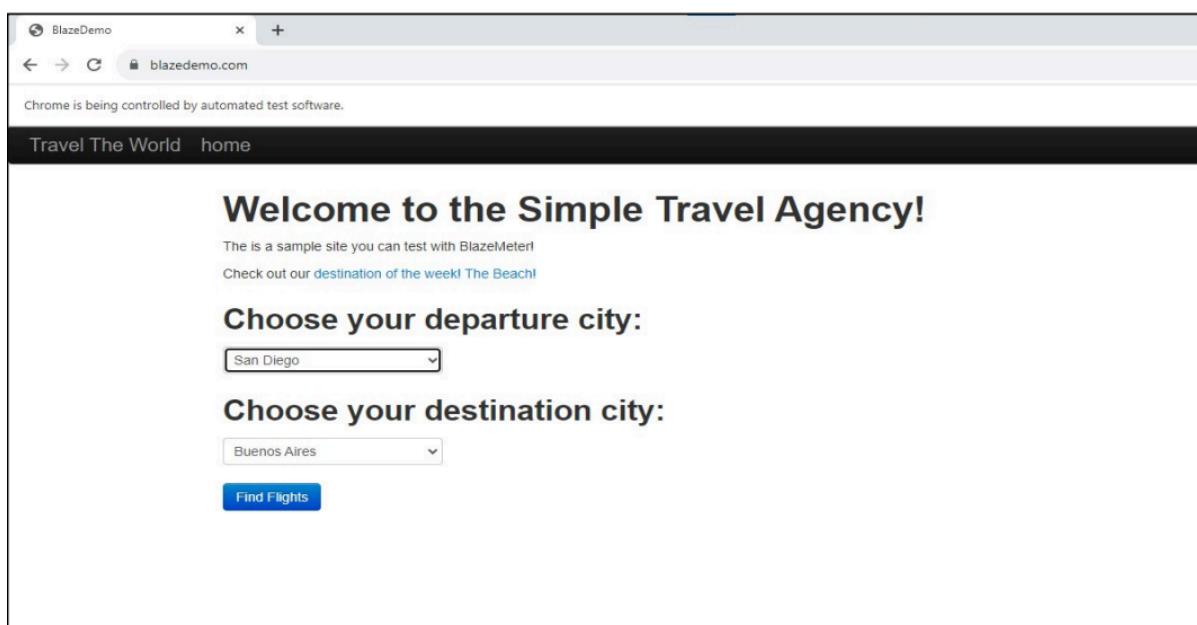
**Code.dropdown): -**

```
package namu_STQA;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.support.ui.Select;

public class dropdownTest {
    public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver","D:\\selenium\\Chromedriver.exe"
        );
        WebDriver wd= new ChromeDriver(); wd.get("https://blazemeter.com/");
        wd.manage().window().maximize();
        Select s = new Select(wd.findElement(By.name("fromPort")));
        //      s.selectByIndex(3);

        s.selectByValue("San Diego");
    }
}
```

**Output: -**



**Code(listbox): -**

```
package demo;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.support.ui.Select; public class guruflights {
public static void main(String[] args) throws InterruptedException {
System.setProperty("webdriver.chrome.driver","D:\\selenium\\Chromedriver.ex
e"
);
WebDriver wd= new ChromeDriver();
wd.get("https://demo.guru99.com/test/newtours/reservation.php");
wd.manage().window().maximize();

wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[
4]/td/table/tbody
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[2]/td[2]/b/font/input[1]")).click(
); Select s1 = new Select(wd.findElement(By.name("passCount")));
s1.selectByValue("3");

wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[
4]/td/table/tbody
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[4]/td[2]/select/option[6]")).click
();

wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[
4]/td/table/tbody
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[5]/td[2]/select[1]/option[7]")).cl
ick();

wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[
4]/td/table/tbody
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[5]/td[2]/select[2]/option[29]")).cl
ick();

wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[
4]/td/table/tbody
```

```
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[7]/td[2]/select[1]/option[10"])).click();  
  
wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody  
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[7]/td[2]/select[2]/option[8"])).cl  
ick();  
/* Select s2 = new Select(wd.findElement(By.name("toPort")));  
s2.selectByValue("Sydney");  
  
Select s3 = new Select(wd.findElement(By.name("toMonth")));  
s3.selectByValue("November");  
Select s4 = new Select(wd.findElement(By.name("toDay")));  
s4.selectByValue("22");*/  
  
wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody  
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[9]/td[2]/font/font/input[1"])).cli  
ck();  
  
wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody  
/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[10]/td[2]/select/option[2"])).clic  
k(); wd.findElement(By.name("findFlights")).click();  
}  
}
```

## Output: -

← → C 🔒 demo.guru99.com/test/newtours/reservation.php

Chrome is being controlled by automated test software.

MERCURY TOURS

one cool summer ARUBA

FLIGHT FINDER

Type:  Round Trip  One Way

Passengers: 3

Departing From: Portland

On: July 29

Arriving In: Acapulco

Returning: October 8

Service Class:  Economy class  Business class  First class

Airline: Blue Skies Airlines

CONTINUE

© 2005, Mercury Interactive (v. 011003-1.01-058)

Find a Flight: Mercury Tours: +

← → C 🔒 demo.guru99.com/test/newtours/reservation2.php

Chrome is being controlled by automated test software.

GURU99 Demo Site

Testing Selenium Live

Selenium Insurance Project Agile Project Bank Project Security Project

MERCURY TOURS

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

After flight finder - No Seats Available

Please press your browser's back button to return to the previous page or click the "BACK TO HOME" icon below to go to the homepage.

BACK TO HOME

© 2005, Mercury Interactive (v. 011003-1.01-058)

## **Q8) Demonstrate Command buttons, radio Buttons, and text boxes**

**Code: -**

```
package namu_STQA;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver; public class rubyWatirTest
{
public static void main(String args[]) throws InterruptedException {
System.setProperty("webdriver.chrome.driver","D:\\selenium\\Chromedriver.exe"
);
WebDriver wd= new ChromeDriver(); wd.get("http://test.rubywatir.com/");
wd.manage().window().maximize();
wd.findElement(By.linkText("Checkboxes")).click();

wd.findElement(By.xpath("//*[@id=\"content\"]//div/div[2]/form/input[3]")).click(); Thread.sleep(3000);
wd.navigate().back(); wd.findElement(By.linkText("Radio buttons")).click();

wd.findElement(By.xpath("//*[@id=\"content\"]//div/div[2]/p/input[5]")).click();
}

}
```

## Output: -

**RubyWatir Test**

**Multiple checkboxes page**

Note: Some checkboxes are checked by default

Please select every sport that you play:

Soccer:	<input checked="" type="checkbox"/>
Football:	<input type="checkbox"/>
Baseball:	<input checked="" type="checkbox"/>
Basketball:	<input checked="" type="checkbox"/>
snooker:	<input type="checkbox"/>
Rugby:	<input type="checkbox"/>
Golf:	<input checked="" type="checkbox"/>
Netball:	<input checked="" type="checkbox"/>

[Show Code](#)

**Links**  
[Checkboxes](#)  
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[if else statements](#)  
[loops](#)  
[string manipulation](#)  
[reg form](#)

[LEVEL 1](#)

[EXERCISES](#)

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**RubyWatir Test**

**HOME** **ABOUT US** **CONTACT US**

**Radio button test page**

Try selecting each radio button

Radio1  
 Radio with class  
 Radio with id  
 Radio with name  
 Radio5  
 Radio6

[Show Code](#)

**LEVEL 1**

**EXERCISES**

**USEFUL LINKS**

## **Q9) Demonstrate synchronisation in selenium**

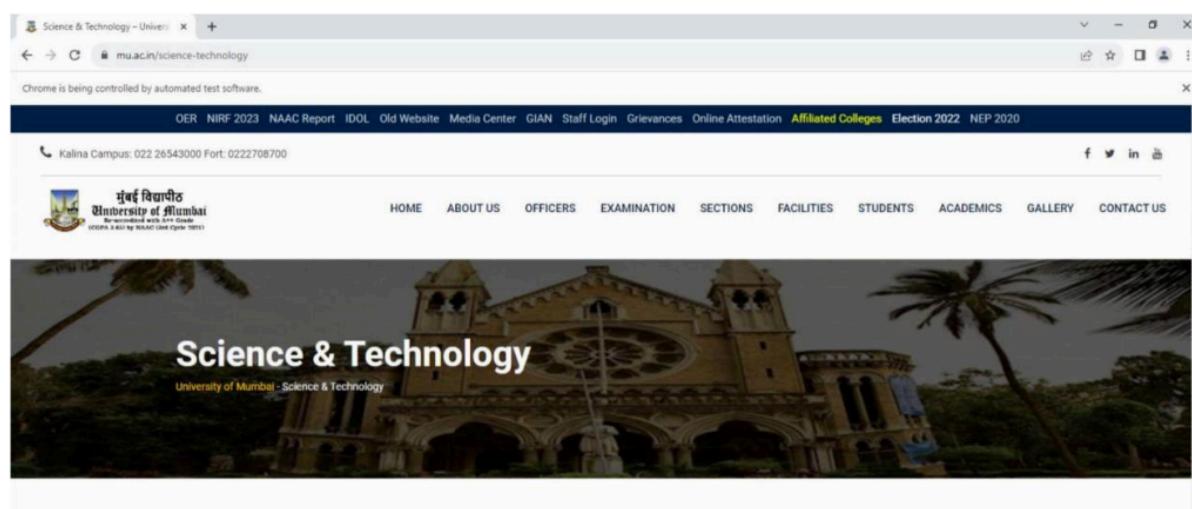
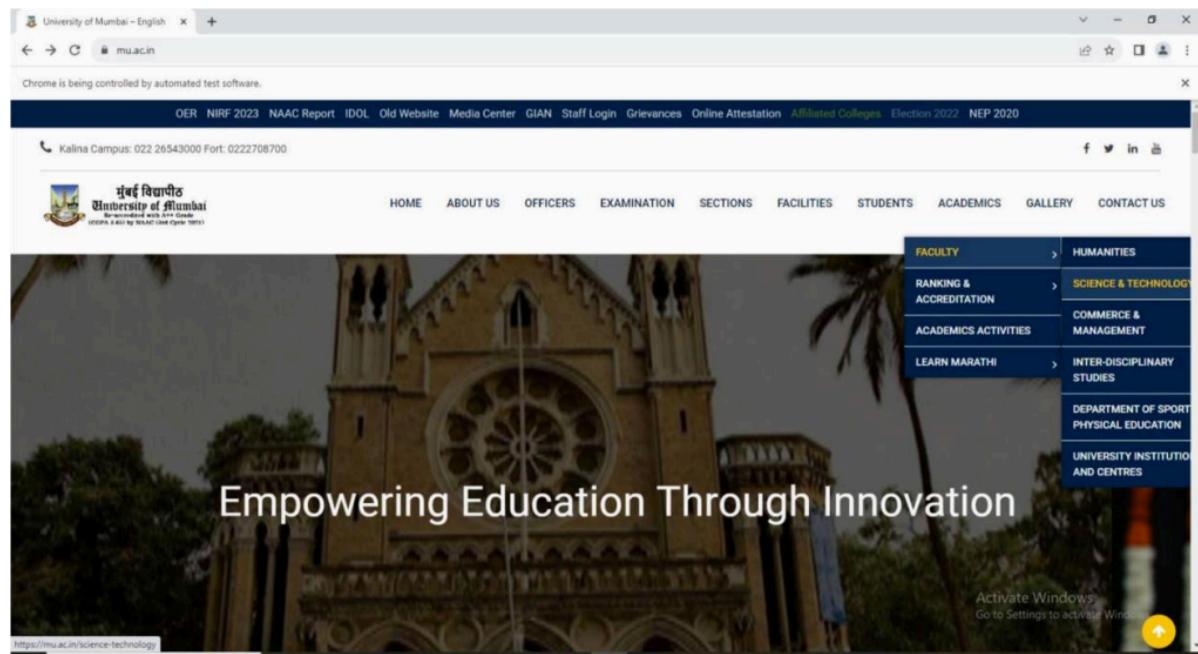
**Code: -**

```
package stqateju;
import org.openqa.selenium.WebDriver; import
org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.interactions.Actions; import java.util.concurrent.TimeUnit;
import org.openqa.selenium.Alert; import org.openqa.selenium.By; public class
wait_action {
public static void main(String[] args) throws InterruptedException {
System.setProperty("WebDriver.Chrome.Driver", "C:\\chromedriver
win64\\ChromeDriver.exe" );
WebDriver wd= new ChromeDriver(); Thread.sleep(5000);;
wd.get("https://mu.ac.in/");
wd.manage().window().maximize();

Actions act = new Actions(wd);
WebElement acda=wd.findElement(By.xpath("//*[@id=\"menu-item
2100\"]/a"));
WebElement faculty=wd.findElement(By.xpath("//*[@id=\"menu-item
2106\"]/a"));
WebElement science=wd.findElement(By.xpath("//*[@id=\"menu-item
2773\"]/a"));

act.moveToElement(acda).build().perform();
act.moveToElement(faculty).build().perform();
act.moveToElement(science).click().build().perform();
}
}
```

## Output: -



## Code: -

```
package stqateju;  
import org.openqa.selenium.WebDriver; import  
org.openqa.selenium.WebElement;  
import org.openqa.selenium.chrome.ChromeDriver;  
  
import org.openqa.selenium.interactions.Actions;
```

```
import org.openqa.selenium.support.ui.ExpectedConditions; import
org.openqa.selenium.support.ui.WebDriverWait; import
java.util.concurrent.TimeUnit;
import org.openqa.selenium.Alert; import org.openqa.selenium.By; public class
wait_action {
public static void main(String[] args) {
System.setProperty("WebDriver.Chrome.Driver", "C:\\chromedriver
win64\\ChromeDriver.exe" );
WebDriver wd= new ChromeDriver(); WebDriverWait wait = new
WebDriverWait(wd,10);

wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath("//*[@id=\\"menu
-item 2100\\"]/a")));

wd.get("https://mu.ac.in/");
wd.manage().window().maximize();

Actions act = new Actions(wd);
WebElement acda=wd.findElement(By.xpath("//*[@id=\"menu-item
2100\"]/a"));
WebElement faculty=wd.findElement(By.xpath("//*[@id=\"menu-item
2106\"]/a"));
WebElement science=wd.findElement(By.xpath("//*[@id=\"menu-item
2773\"]/a"));

act.moveToElement(acda).build().perform();
act.moveToElement(faculty).build().perform();
act.moveToElement(science).click().build().perform();
}
}
```

## Output: -

The screenshot shows the official website of the University of Mumbai (mu.ac.in). The top navigation bar includes links for OER, NIRF 2023, NAAC Report, IDOL, Old Website, Media Center, GIAN, Staff Login, Grievances, Online Attestation, Affiliated Colleges, Election 2022, and NEP 2020. A banner at the top states "Kalina Campus: 022 26543000 Fort: 0222708700". The main menu features links for HOME, ABOUT US, OFFICERS, EXAMINATION, SECTIONS, FACILITIES, STUDENTS, ACADEMICS, GALLERY, and CONTACT US. A prominent dropdown menu under "ACADEMICS" lists categories such as FACULTY (Humanities, Science & Technology, Commerce & Management, Academics Activities, Learn Marathi), INTER-DISCIPLINARY STUDIES, DEPARTMENT OF SPORT PHYSICAL EDUCATION, and UNIVERSITY INSTITUTION AND CENTRES. The background image is a photograph of a large, ornate building with a clock tower.

This screenshot shows the "Science & Technology" section of the University of Mumbai website. The URL in the address bar is https://mu.ac.in/science-technology. The page layout is identical to the main homepage, featuring the same header, footer, and central image of the university building. The main heading on the page is "Science & Technology" and it includes a subtext "University of Mumbai - Science & Technology".

This screenshot displays the "Our Departments" section of the Science & Technology page. It features three highlighted departmental links: "DEPARTMENT OF LIFE SCIENCES", "DEPARTMENT OF GEOGRAPHY", and "DEPARTMENT OF BIOTECHNOLOGY". Each link is accompanied by a small icon representing its field of study. The overall design follows the established theme of the university's website.

## **Q10) Demonstrate action classes in selenium**

**Code(Single Action): -**

```
package newproject;
```

```
import org.openqa.selenium.*;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Action;
import org.openqa.selenium.interactions.Actions;

public class PG7 {

    public static void main(String[] args) {
        String baseUrl = "http://demo.guru99.com/test/newtours/";
        System.setProperty("webdriver.gecko.driver","C:\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();

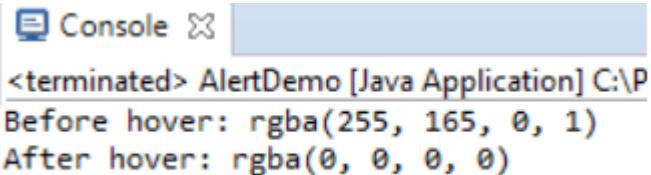
        driver.get(baseUrl);
        WebElement link_Home = driver.findElement(By.linkText("Home"));
        WebElement td_Home = driver
            .findElement(By
                .xpath("//html/body/div"
                    + "/table/tbody/tr/td"
                    + "/table/tbody/tr/td"
                    + "/table/tbody/tr/td"
                    + "/table/tbody/tr"));

        Actions builder = new Actions(driver);
        Action mouseOverHome = builder
            .moveToElement(link_Home)
            .build();

        String bgColor = td_Home.getCssValue("background-color");
        System.out.println("Before hover: " + bgColor);
        mouseOverHome.perform();
        bgColor = td_Home.getCssValue("background-color");
        System.out.println("After hover: " + bgColor);
        driver.close();
    }
}
```

```
    }  
}
```

## Output: -



Console X  
<terminated> AlertDemo [Java Application] C:\P  
Before hover: rgba(255, 165, 0, 1)  
After hover: rgba(0, 0, 0, 0)

## Code(Multiple Actions): -

```
package newproject;
```

```
import org.openqa.selenium.*;  
import org.openqa.selenium.firefox.FirefoxDriver;  
import org.openqa.selenium.interactions.Action;  
import org.openqa.selenium.interactions.Actions;  
  
public class PG7 {  
    public static void main(String[] args) {  
        String baseUrl = "http://www.facebook.com/";  
        WebDriver driver = new FirefoxDriver();  
  
        driver.get(baseUrl);  
        WebElement txtUsername = driver.findElement(By.id("email"));  
  
        Actions builder = new Actions(driver);  
        Action seriesOfActions = builder  
            .moveToElement(txtUsername)  
            .click()  
            .keyDown(txtUsername, Keys.SHIFT)  
            .sendKeys(txtUsername, "hello")  
            .keyUp(txtUsername, Keys.SHIFT)  
            .doubleClick(txtUsername)  
            .contextClick()  
            .build();  
  
        seriesOfActions.perform() ;
```

```
}
```

```
}
```

## Output: -

