

**Ex no: 1**  
**Date:**

**Develop a Test to Open a Chrome Browser  
Using Selenium Web Driver**

**AIM:**

**ALGORITHM:**

## **CODING:**

```
package hello;
```

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

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

```
public class hello1 {
```

```
public static void main(String[] args) {
```

```
System.setProperty("webdriver.chrome.driver","/home/skasc/Downlo  
ads/chromedriver");
```

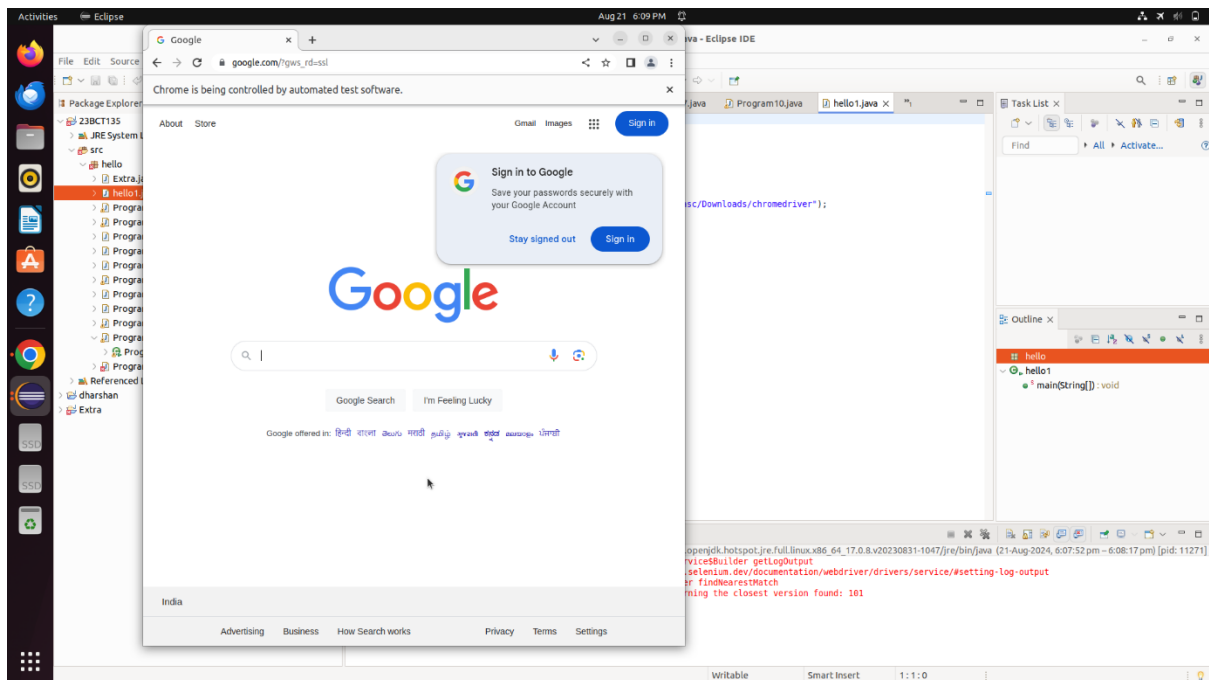
```
WebDriver driver=new ChromeDriver();
```

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

```
}
```

```
}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 2**  
**Date:**

**Print a message to display that the website is opened  
successfully wait for 5 seconds and close  
the browser**

**AIM:**

**ALGORITHM:**

## **CODING:**

```
package hello;
```

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

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

```
public class Program2 {
```

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

```
    System.setProperty("webdriver.chrome.driver","home/skasc/Downloads/chromedriver");
```

```
    WebDriver driver=new ChromeDriver();
```

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

```
    System.out.println("Website is opened Successfully");
```

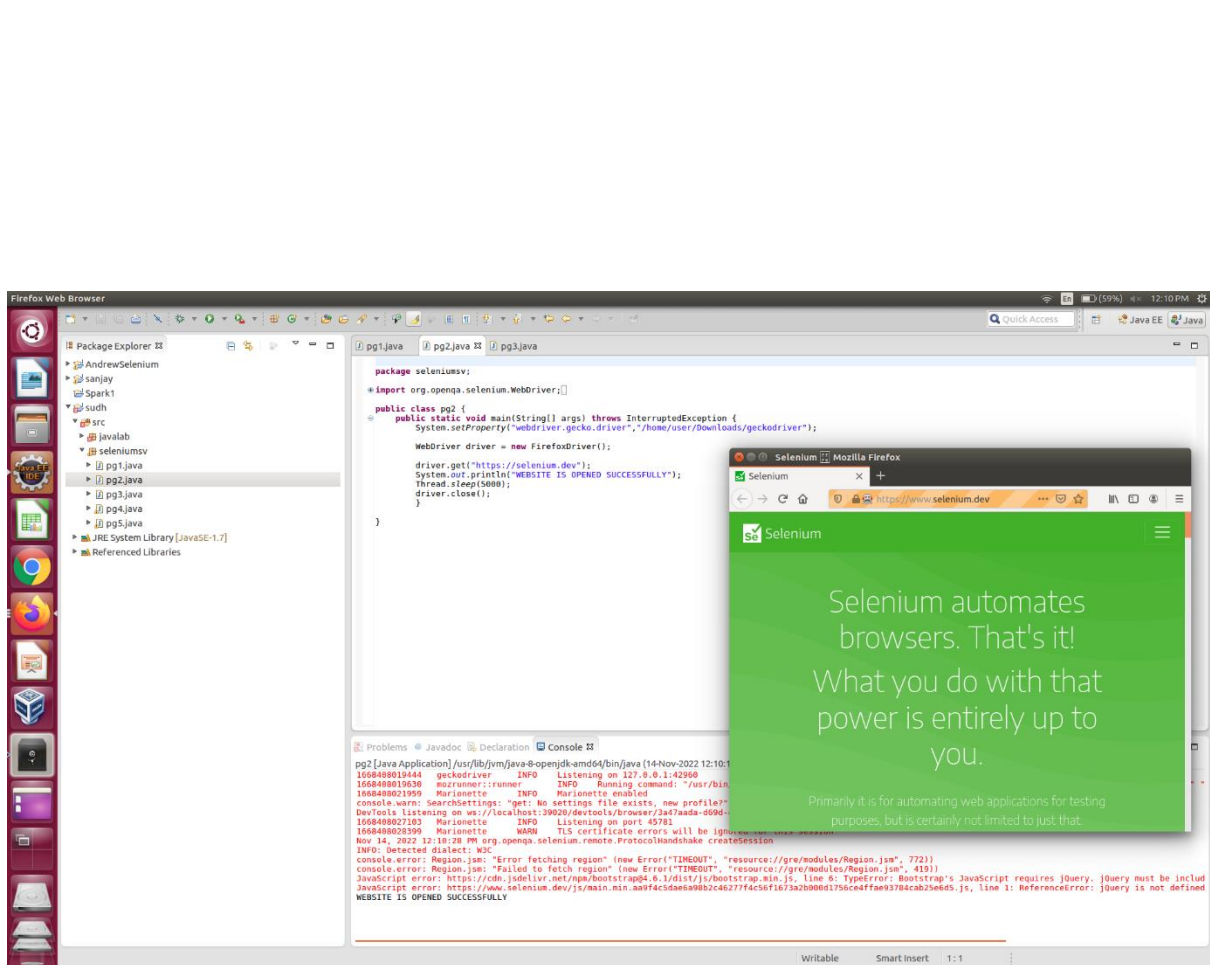
```
    Thread.sleep(5000);
```

```
    driver.close();
```

```
}
```

```
}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 3**  
**Date:**

**Develop a test to upload a file with SendKeys method  
by using Web Driver**

**AIM:**

**ALGORITHM:**

## CODING:

```
package hello;
```

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

```
import org.openqa.selenium.Keys;
```

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

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

```
public class Program3 {
```

```
public static void main(String[] args) {
```

```
System.setProperty("webdriver.chrome.driver","/home/skasc/Downlo  
ads/chromedriver");
```

```
WebDriver driver=new ChromeDriver();
```

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

```
driver.findElement(By.name("q")).sendKeys("selenium");
```

```
driver.findElement(By.name("q")).sendKeys(Keys.ENTER);
```

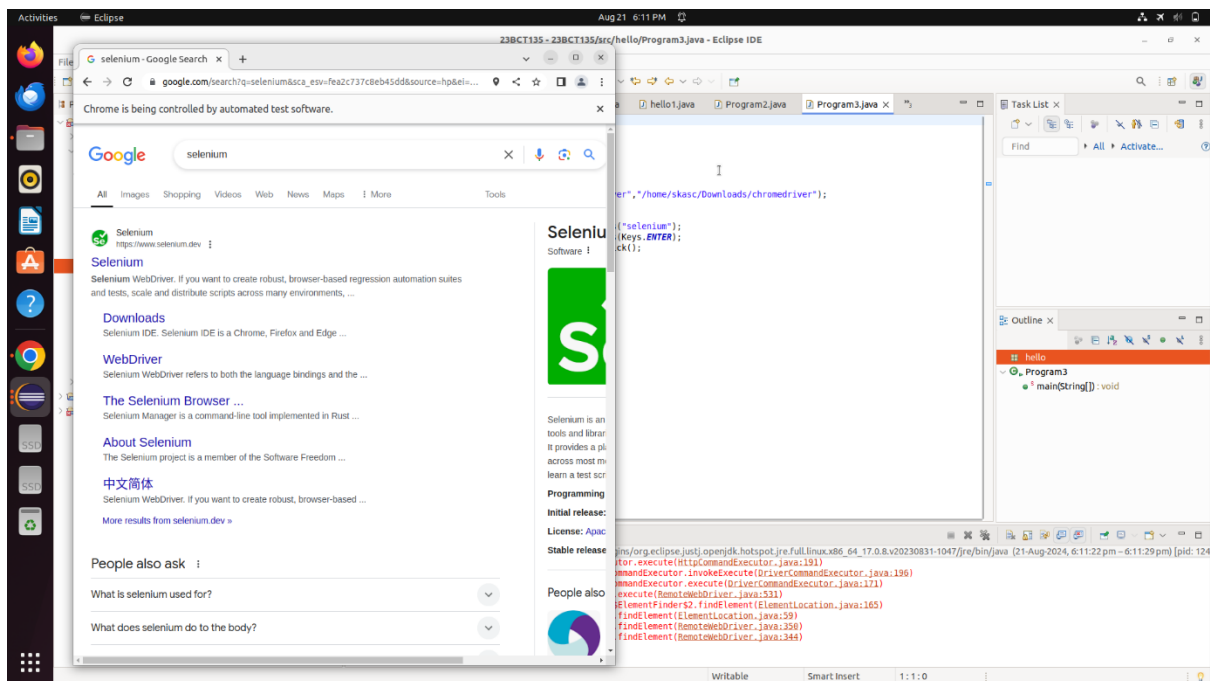
```
driver.findElement(By.name("Tg7LZd")).click();
```

```
}
```

```
}
```



## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 4**  
**Date:**

**Automate to access a link in Selenium Web Driver  
using link text () and partial link text ()**

**AIM:**

**ALGORITHM:**

## **CODING:**

```
package hello;
```

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

```
import org.openqa.selenium.Keys;
```

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

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

```
public class Program4 {
```

```
public static void main(String[] args) {
```

```
System.setProperty("webdriver.chrome.driver","/home/skasc/Downlo  
ads/chromedriver");
```

```
WebDriver driver=new ChromeDriver();
```

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

```
driver.findElement(By.linkText("Sign in")).click();
```

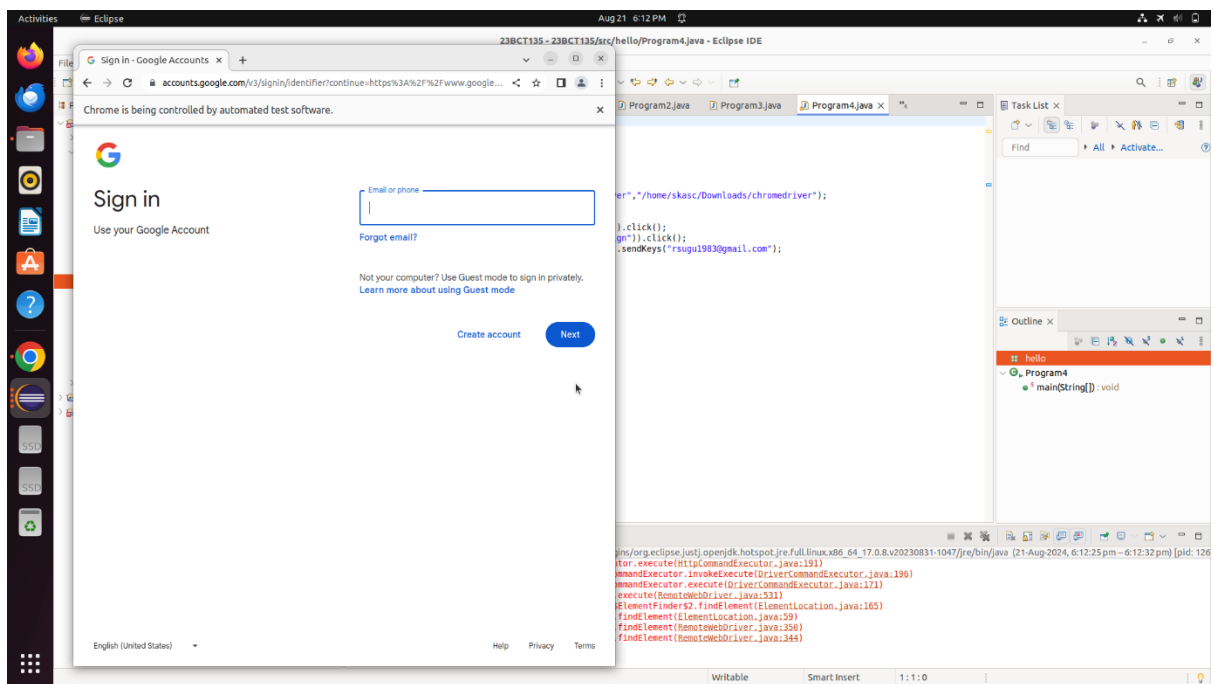
```
driver.findElement(By.partialLinkText("Sign")).click();
```

```
driver.findElement(By.id("identifierId")).sendKeys("rsugu1983@gma  
il.com");
```

```
}
```

```
}
```

**OUTPUT:**

**RESULT:**

Hence the above program has been compiled and executed successfully.

**Ex no: 5**  
**Date:**

**Locate a link by selecting multiple items in a dropdown**

**AIM:**

**ALGORITHM:**

## CODING:

```
package hello;

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 Program5 {

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

        System.setProperty("webdriver.chrome.driver","/home/skasc/Downlo
ads/chromedriver");
        WebDriver driver=new ChromeDriver();
        driver.get("https://portal2.passportindia.gov.in/AppOnlineProject/user
/RegistrationBaseAction");
        driver.manage().window().maximize();
        Select passportoffice = new
        Select(driver.findElement(By.name("dcdLocation"))));

        passportoffice.selectByIndex(5);

        Thread.sleep(2000);

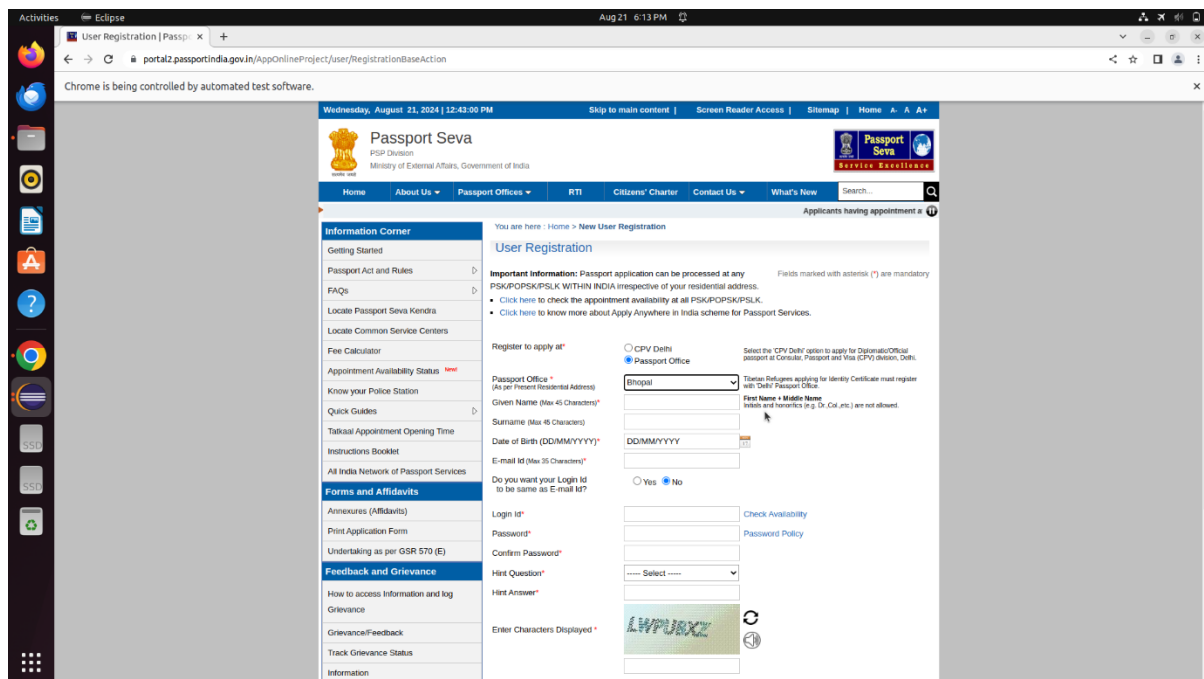
        passportoffice.selectByValue("1");

        Thread.sleep(2000);
        passportoffice.selectByVisibleText("Chennai");

        Thread.sleep(2000);

    }
}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 6**  
**Date:**

**Develop a test to locate a frame using tag name**

**AIM:**

**ALGORITHM:**



## **CODING:**

```
package newpackage;

import org.openqa.selenium.By ;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class selenium6 {

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

    System.setProperty("webdriver.chrome.driver","/home/skasc/Downloads/chromedriver");

    WebDriver driver = new ChromeDriver();

    driver.get("https://www.w3schools.com/tags/tryit.asp?filename=tryhtml_button_test");

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

    driver.switchTo().frame("iframeResult");

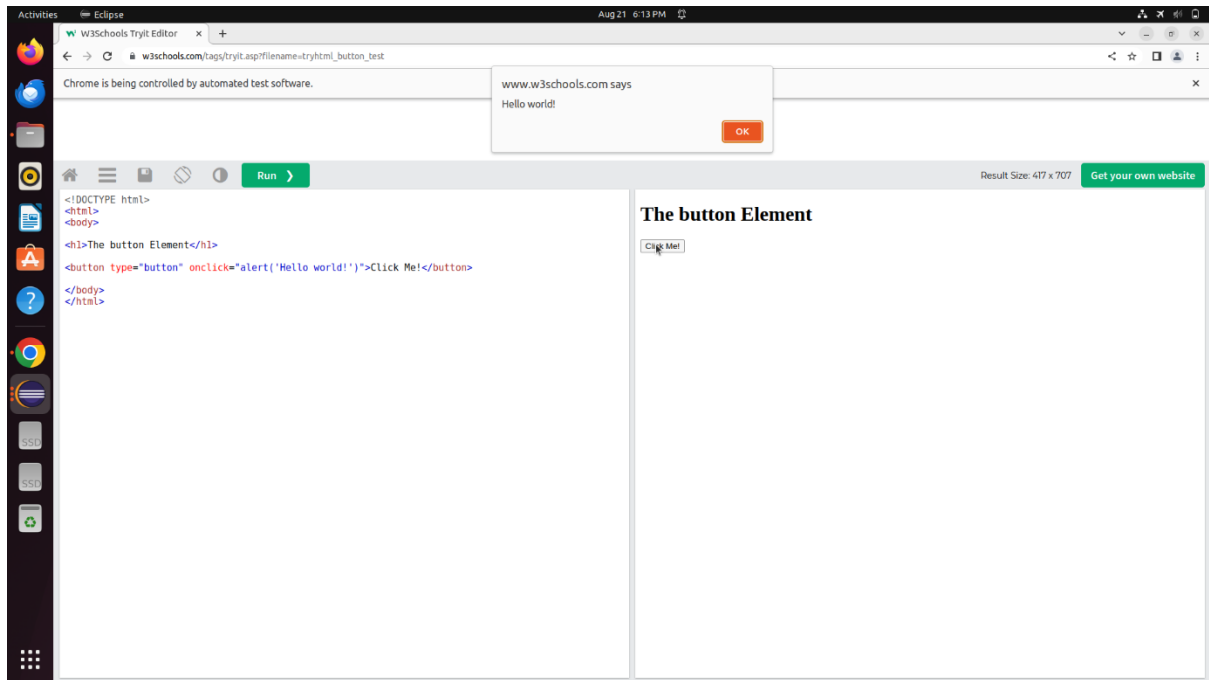
    driver.findElement(By.xpath("/html/body/button")).click();

    driver.switchTo().defaultContent();

}

}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 7**  
**Date:**

**Test the case to submit a login form using Web Driver**

**AIM:**

**ALGORITHM:**

## CODING:

```
package hello;

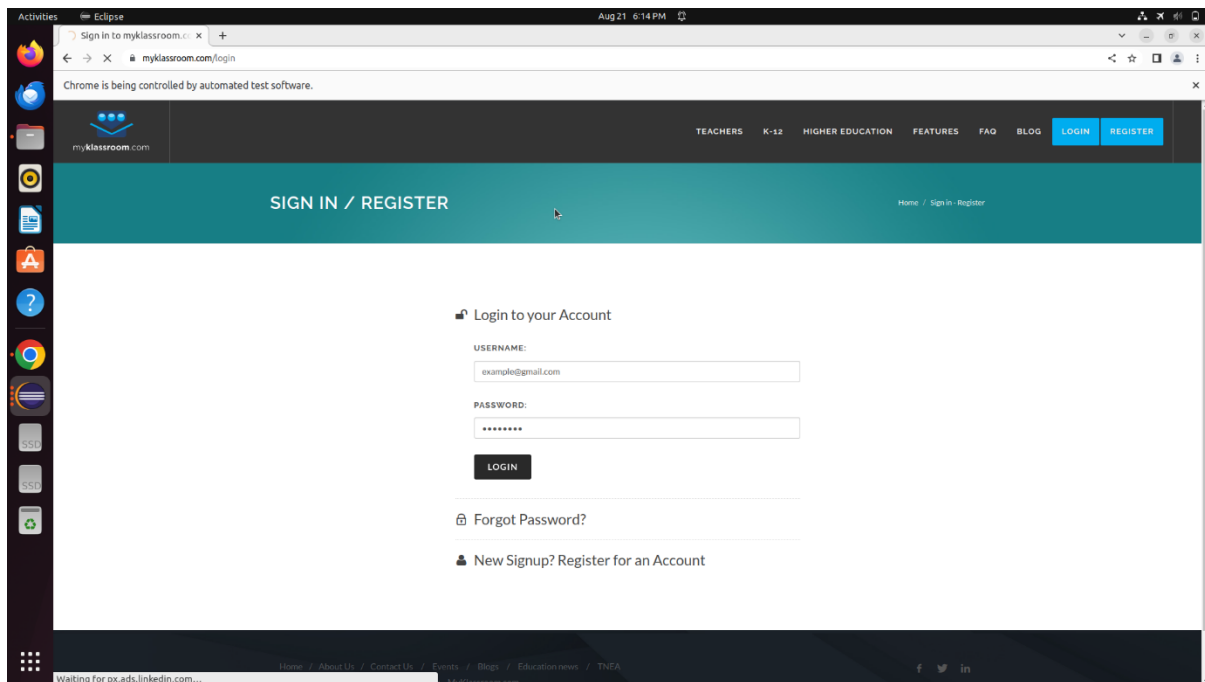
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Program7 {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "/home/skasc/Downlo
ads/chromedriver");
        WebDriver driver=new ChromeDriver();
        driver.get("https://www.myclassroom.com/login");
        driver.manage().window().maximize();
        driver.findElement(By.id("login-
email")).sendKeys("example@gmail.com");
        driver.findElement(By.id("login-password")).sendKeys("password");
        driver.findElement(By.xpath("//*[@id=\"overlay\"]/div[2]/div[1]/butt
on")).click();
        driver.findElement(By.id("login-form-submit")).click();
        String actualUrl="https://www.myclassroom.com/login";
        String expectedUrl= driver.getCurrentUrl();
        System.out.println("expectedUrl is :"+ expectedUrl);
        if(actualUrl.equalsIgnoreCase(expectedUrl))
        {
            System.out.println("Test passed");
        }
        else
        {
            System.out.println("Test failed");
        }
    }
}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 8**  
**Date:**

**Develop a test to synchronize using an implicit wait**

**AIM:**

**ALGORITHM:**

## **CODING:**

```
package hello;
```

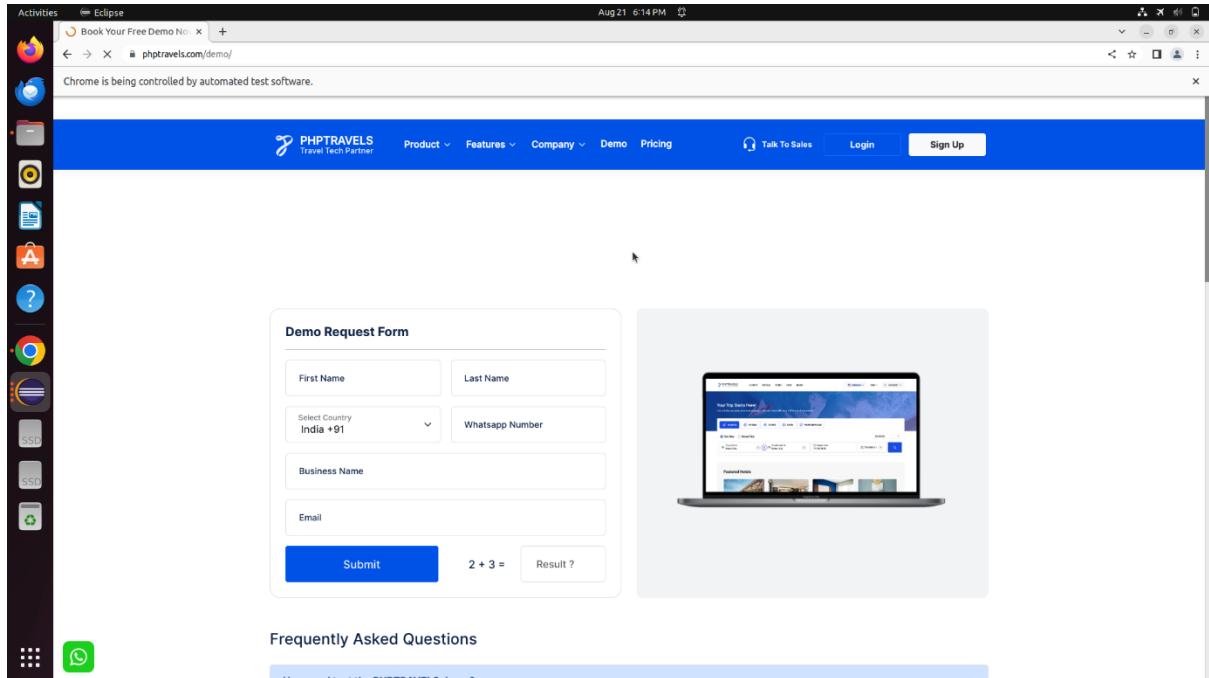
```
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
import java.util.concurrent.TimeUnit;
```

```
public class Program8 {
```

```
public static void main(String[]args) {
```

```
System.setProperty("webdriver.chrome.driver","/home/skasc/Downlo  
ads/chromedriver");  
WebDriver driver = new ChromeDriver();  
driver.get("https://phptravels.com/demo/");  
driver.manage().window().maximize();  
driver.manage().timeouts().implicitlyWait(30,TimeUnit.SECONDS);  
driver.close();  
}  
  
}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.



**Ex no: 9**  
**Date:**

**Develop a test to synchronize using an explicit wait**

**AIM:**

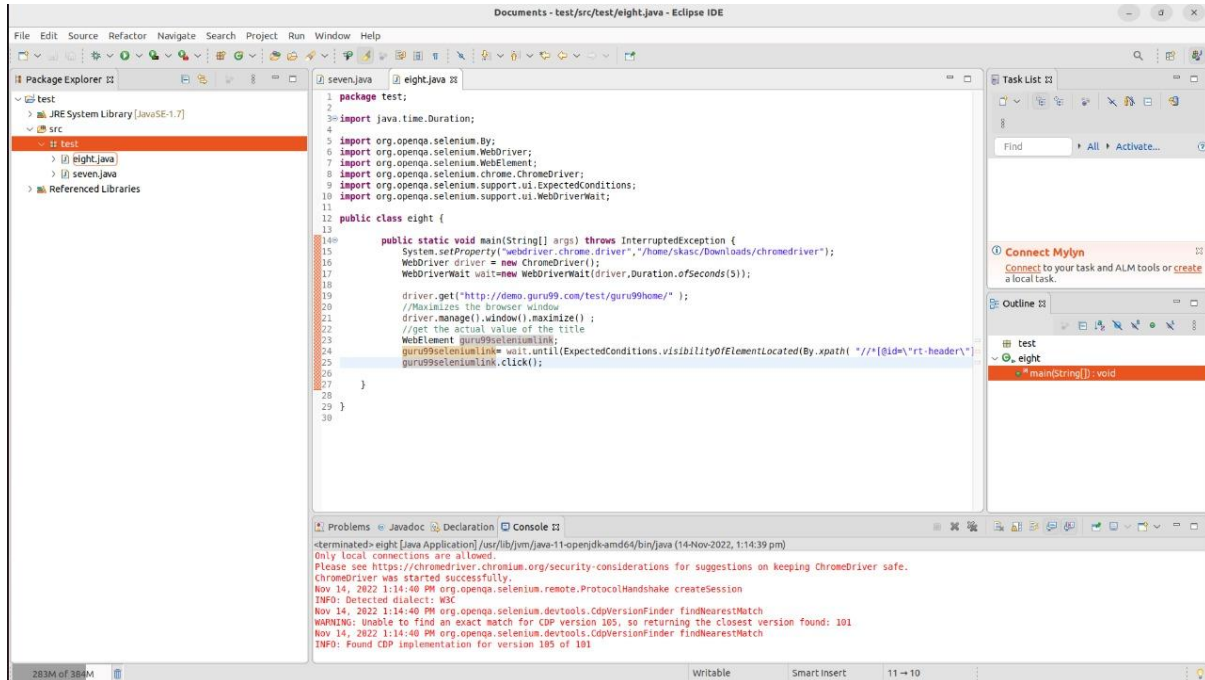
**ALGORITHM:**

## CODING:

```
package newpackage;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.By;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.ui.WebDriverWait;
public class ne {
    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver","/home/skasc/Dow
nloads/chromedriver");
        WebDriver driver = new ChromeDriver();
        WebDriverWait wait=new WebDriverWait(driver, 20);
        driver.get("http://demo.guru99.com/test/guru99home/" );
        driver.manage().window().maximize() ;
        WebElement guru99seleniumlink;
        guru99seleniumlink=
wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath(
"/html/body/div[1]/section/div[2]/div/div[1]/div/div[1]/div/div/div/div[2]/d
iv[2]/div/div/div/div/div[1]/div/div/a/i"))));
        guru99seleniumlink.click();

    }
}
```

## OUTPUT:



The screenshot displays the Eclipse IDE interface with the following components:

- Package Explorer:** Shows a project structure with 'test' and 'src' packages. 'test' contains 'eight.java' and 'seven.java'.
- Editor:** Displays the code for 'eight.java'. The code imports Selenium WebDriver and supports classes, defines a 'public class eight' with a 'main' method, and includes logic to set the WebDriver path, maximize the browser window, and click on a web element.
- Task List:** Shows a task to 'Connect Mylyn'.
- Outline:** Shows the class structure of 'eight' with the 'main(String[]) : void' method highlighted.
- Console:** Displays the output of the program execution, including messages from the Selenium WebDriver and the CDP implementation.

```
1 package test;
2
3 import java.time.Duration;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.WebElement;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.openqa.selenium.support.ui.ExpectedConditions;
10 import org.openqa.selenium.support.ui.WebDriverWait;
11
12 public class eight {
13
14     public static void main(String[] args) throws InterruptedException {
15         System.setProperty("webdriver.chrome.driver", "/home/skasc/Downloads/chromedriver");
16         WebDriver driver = new ChromeDriver();
17         WebDriverWait wait=new WebDriverWait(driver,Duration.ofSeconds(5));
18
19         driver.get("http://demo.guru99.com/test/guru99home/");
20         //Maximizes the browser window
21         driver.manage().window().maximize();
22         //get the actual value of the title
23         WebElement guru99seleniumlink;
24         guru99seleniumlink= wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath( "//*[@id=\"rt-header\"]" ));
25         guru99seleniumlink.click();
26
27     }
28
29 }
30
```

Console Output:

```
terminated> eight [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (14-Nov-2022, 1:14:39 pm)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Nov 14, 2022 1:14:40 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Nov 14, 2022 1:14:40 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 105, so returning the closest version found: 101
Nov 14, 2022 1:14:40 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found CDP Implementation for version 105 of 101
```

## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 10**  
**Date:**

**Test the case by identifying and handling a pop –up  
window by its name**

**AIM:**

**ALGORITHM:**

## CODING:

```
package hello;

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

public class Program10 {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "/home/skasc/Downloads/chromedriver");
        WebDriver driver=new ChromeDriver();
        driver.get("http://demo.guru99.com/test/delete_customer.php");
        driver.findElement(By.name("cusid")).sendKeys("53920");
        driver.findElement(By.name("submit")).submit();

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

        String alertMessages = driver.switchTo().alert().getText();

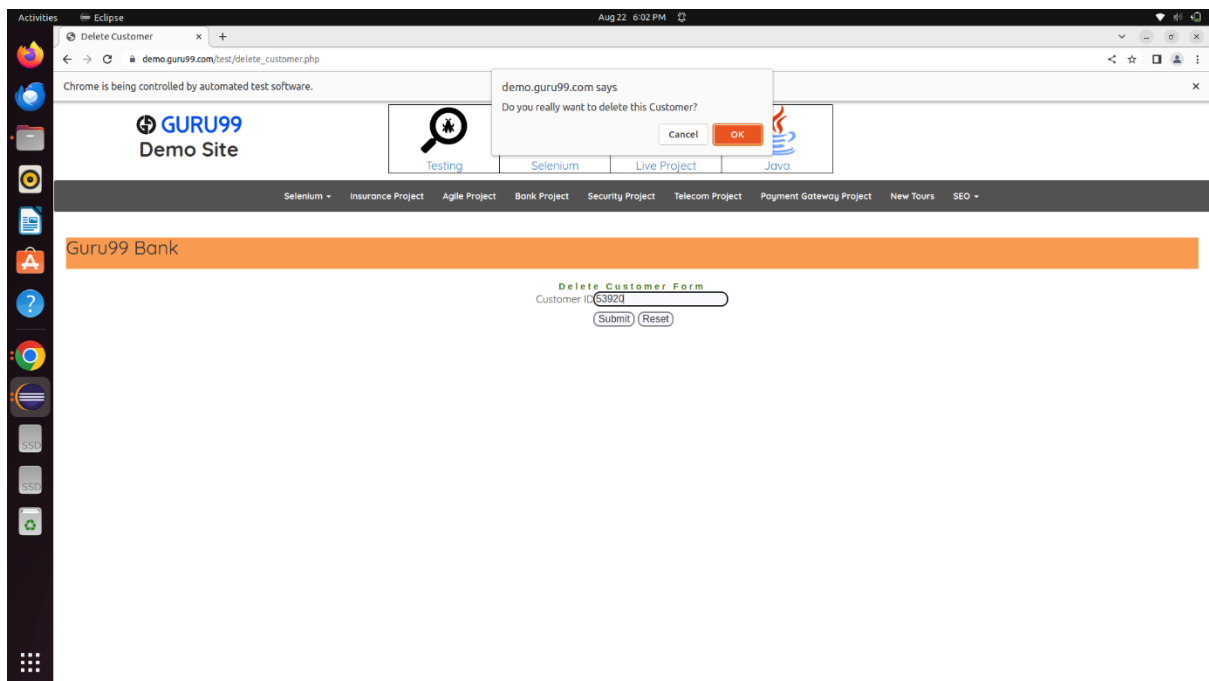
        Thread.sleep(5000);

        alert.accept();

    }

}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 11**  
**Date:**

**Develop a test plan to use locators with parameters  
to search for keyword**

**AIM:**

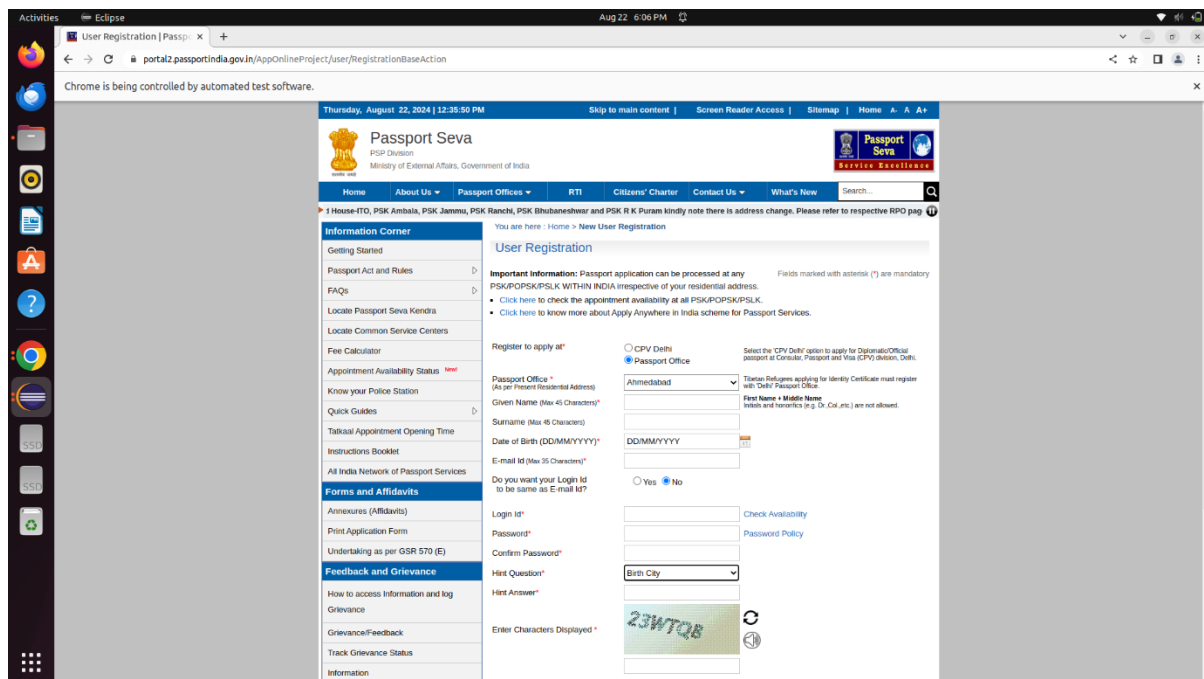
**ALGORITHM:**

## **CODING:**

```
package program11;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.Alert;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.interactions.Actions;
public class Program11 {
public static void main(String[] args) throws InterruptedException
{ System.setProperty("webdriver.chrome.driver","C:\\\\Users\\\\Hxtreme\\
\\Desktop\\\\chromedriver.exe");
  WebDriver driver=new ChromeDriver();
  driver.get("https://google.com");
  driver.findElement(By.name("q")).sendKeys("passport seva");
  driver.findElement(By.name("q")).sendKeys(Keys.ENTER);
  driver.get("https://portal2.passportindia.gov.in/AppOnlineProject/user
/RegistrationBaseAction");
  driver.manage().window().maximize();
  Select passportoffice = new
  Select(driver.findElement(By.name("dcdLocation"))));
  passportoffice.selectByIndex(1);
  driver.findElement(By.id("emailloginSameyes")).click();
  driver.findElement(By.id("hintQues")).click();
  Select hintques = new Select(driver.findElement(By.id("hintQues")));
  hintques.selectByVisibleText("Birth City");
  driver.findElement(By.xpath("//*[ @id='passOffice']"));
  Actions actions = new Actions(driver);
  actions.moveToElement(driver.findElement(By.xpath("//*[ @id='pass
Office']"))).perform();
  Thread.sleep(1000);
  actions.moveToElement(driver.findElement(By.id("passportoffices2"
))).click();
  actions.perform();
  Thread.sleep(1000);
}
```



## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.

**Ex no: 12**  
**Date:**

**Automate the test case by dynamic XPath in Selenium  
using double slash**

**AIM:**

**ALGORITHM:**

## **CODING:**

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

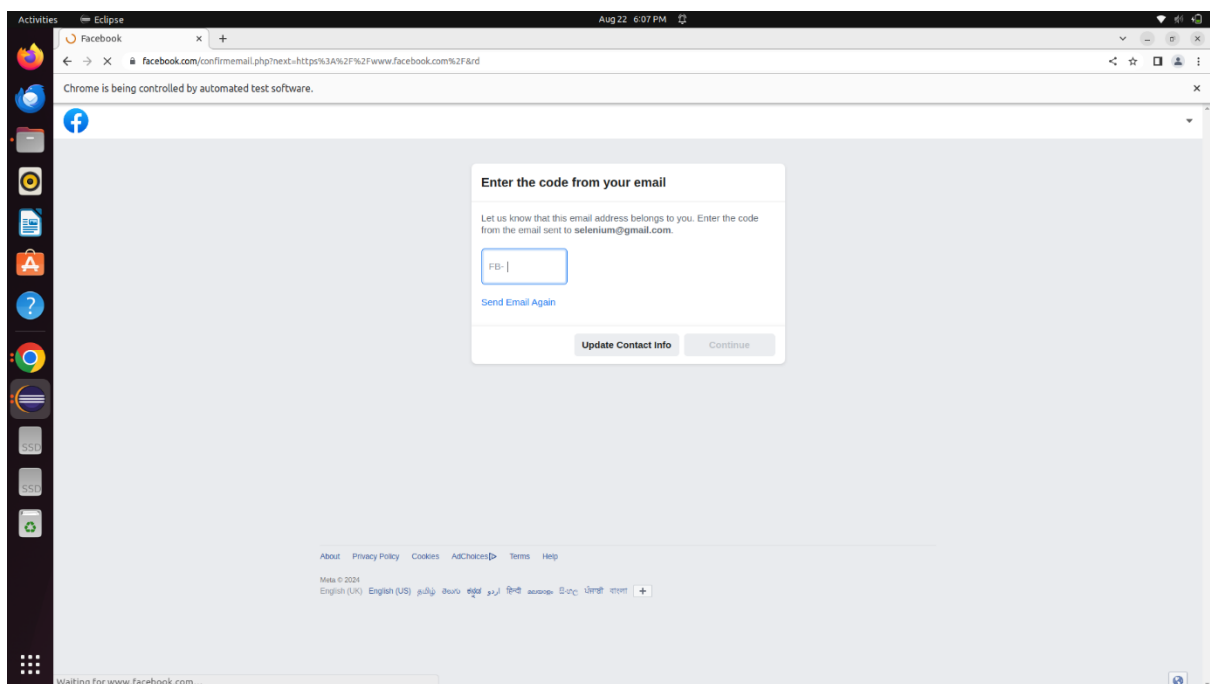
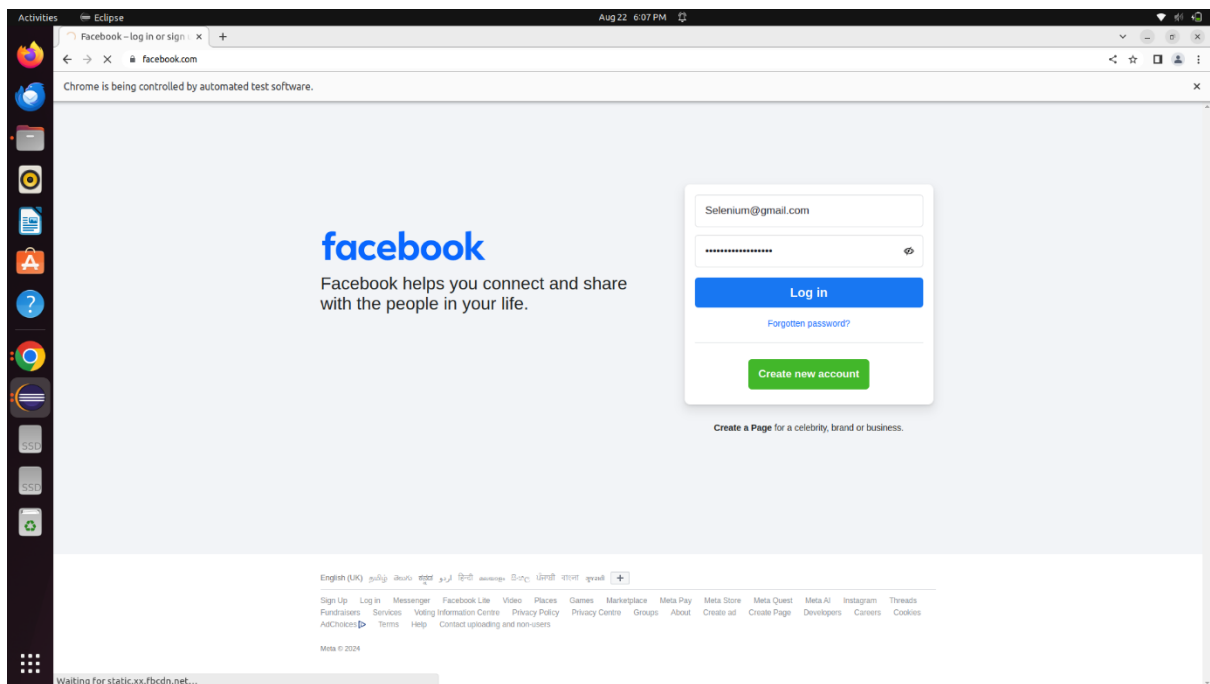
public class pgm {

    public static void main(String[] args) {

        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver","E:\\Softwares\\Selenium SW\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://www.facebook.com/");
        driver.manage().window().maximize();
        driver.findElement(By.name("email")).sendKeys("Selenium@gmail.com");
        driver.findElement(By.name("pass")).sendKeys("Selenium@gmail.com");
        driver.findElement(By.xpath("//button[contains(text(),'Log in')]")).click();
    }

}
```

## OUTPUT:



## RESULT:

Hence the above program has been compiled and executed successfully.