|	**WRITE A TEST SUITE TO TEST GOOGLE WITH TEST CASES USING SELENIUM IDE.**

Aim:

To test Google using Selenium IDE.

Procedure:

1. Open Selenium IDE in Google chrome Extension.
2. Create a new project and give project name . Add new test and give testcase name.
3. Copy the google URL and paste it in the playback base URL.
4. Start record and the Google search window will be displayed.
5. Search anything in it and go back to selenium IDE and stop the record .
6. Run the record and the process is displayed in the command, target and value.
7. Right click the test case and give export and choose the programming language.

Output:
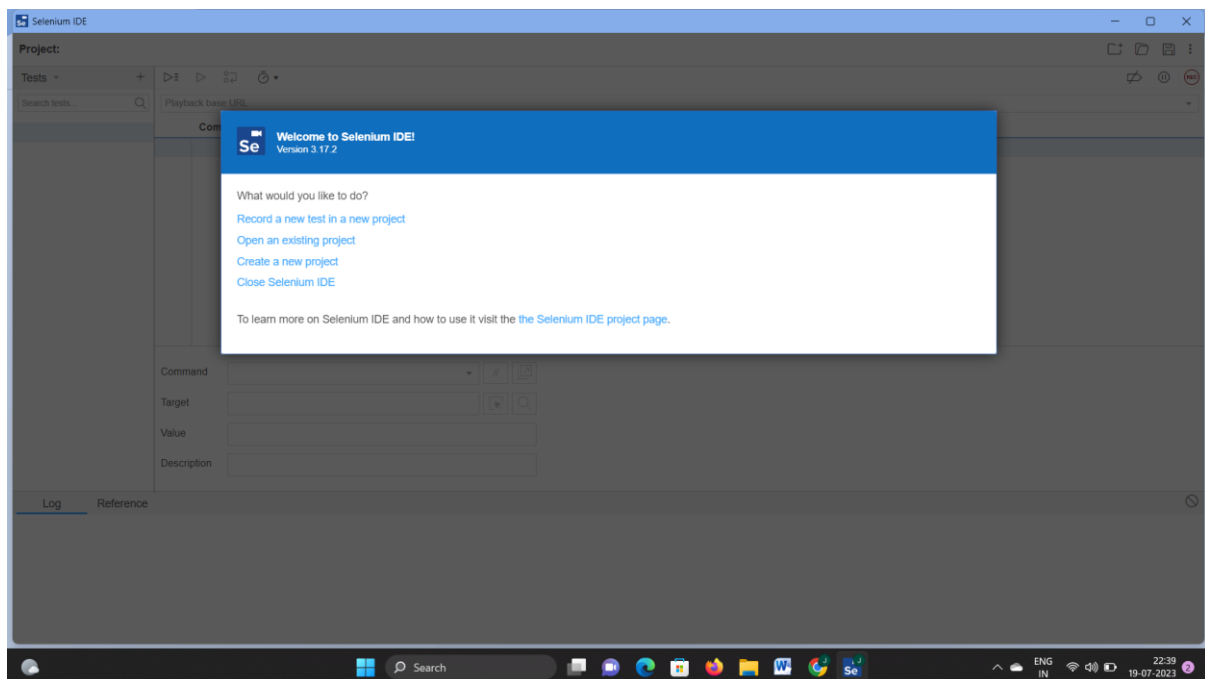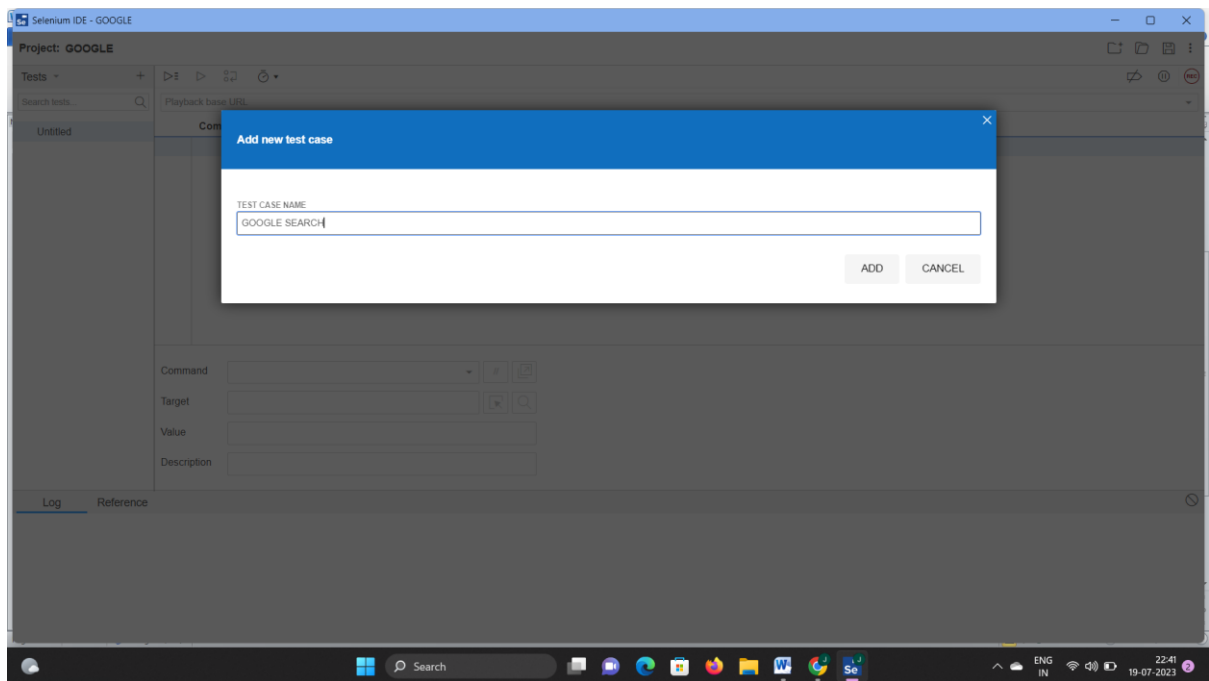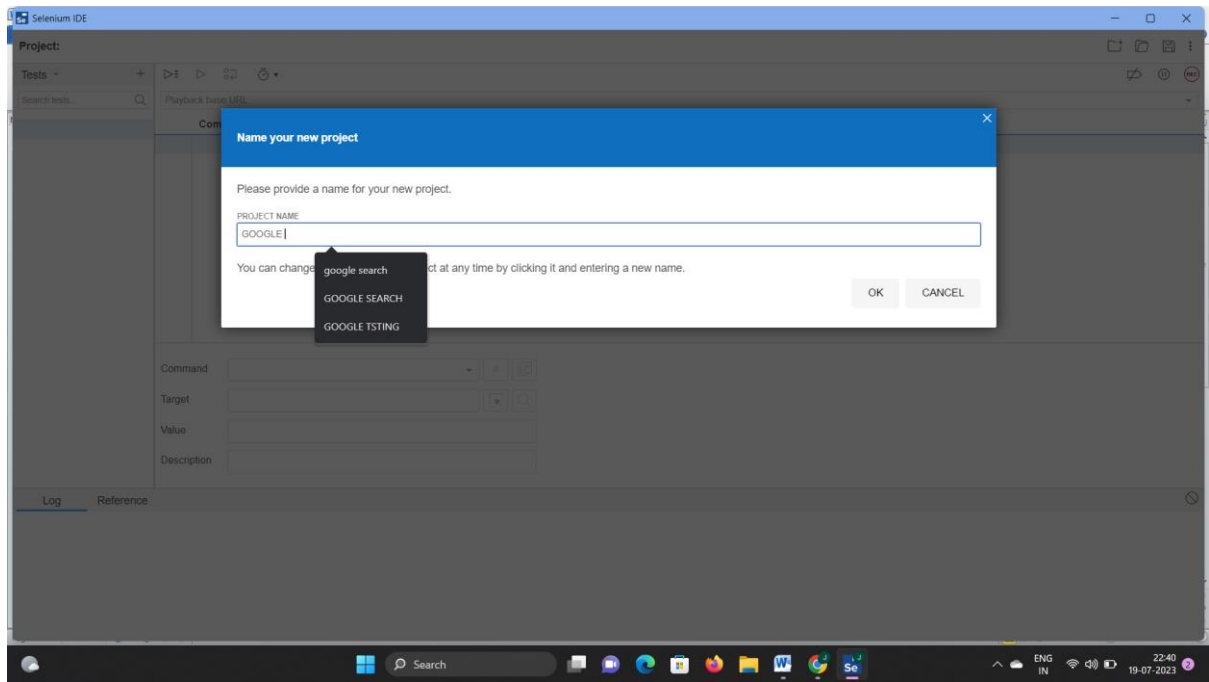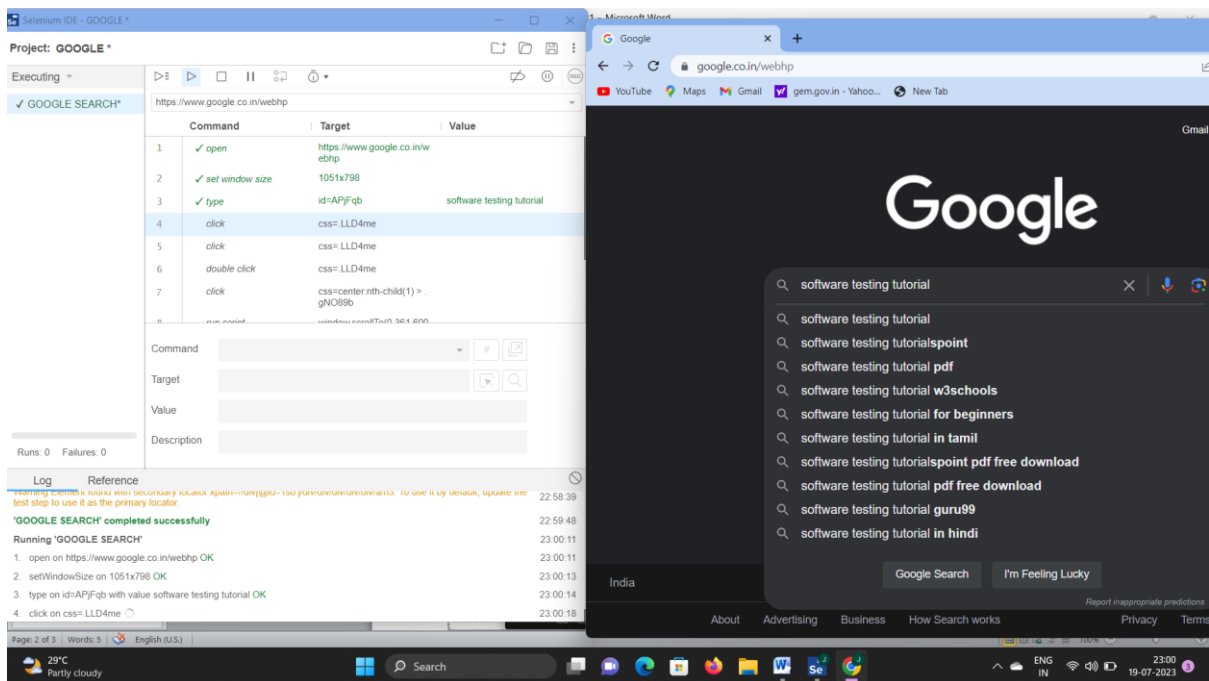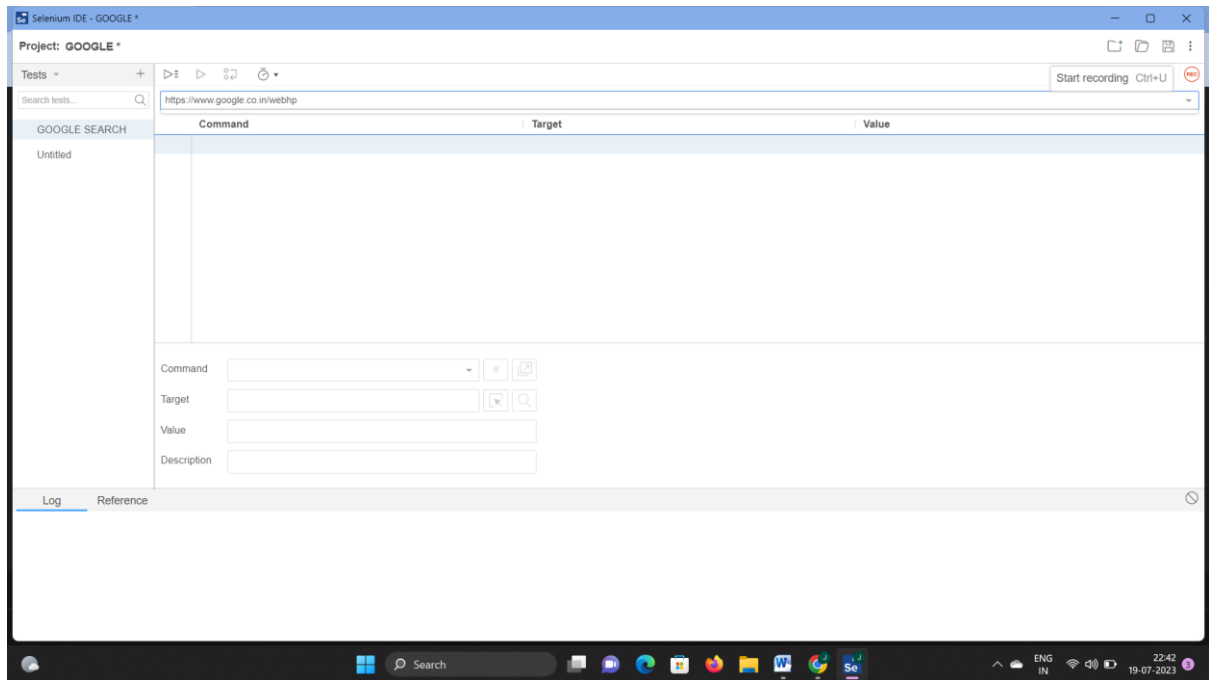
Selenium IDE - GOOGLE *

Project: GOOGLE *

Tests

Search tests...

✓ GOOGLE SEARCH*

Untitled

https://www.google.co.in/webhp

		Command	Target	Value
			eohp	
2		✓ set window size	1051x798	
3		✓ type	id=APjFqb	software testing tutorial
4		✓ click	css=.LLD4me	
5		✓ click	css=.LLD4me	
6		✓ double click	css=.LLD4me	
7		✓ click	css=center:nth-child(1) > .gNO89b	
8		run script	window.scrollTo(0,361.600 0061035156)	

Command

Target

Value

Description

Log   Reference

type on APjFqb with value software testing tutorial OK   23:00:14
4. click on css=.LLD4me OK   23:00:18
5. click on css=.LLD4me OK   23:00:19
6. doubleClick on css=.LLD4me OK   23:00:21
7. click on css=center:nth-child(1) > .gNO89b OK   23:00:23
8. runScript on window.scrollTo(0,361.6000061035156) Undetermined   23:00:24
   Aborting...
'GOOGLE SEARCH' was aborted   23:00:26

Page: 3 of 3   Words: 5   English (India)

29°C Partly cloudy

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software testing tutorial - Google

google.co.in/search?q=software+testing+tutorial&source=hp&ei=ph24ZMSnIonN2roPyZaB-A88iflsi...

YouTube   Maps   Gmail   gem.gov.in - Yahoo...   New Tab

Google   software testing tutorial

Videos   W3schools   PDF   Free   Images   For beginners   Geeksforgeeks   Guru99   Man

About 30,80,00,000 results (0.43 seconds)

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Software Testing Tutorial
This tutorial will give you a basic understanding on software testing, its types, methods, levels, and other related terminologies.
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ENG IN   23:01 19-07-2023

Selenium IDE - GOOGLE *

Project: GOOGLE *

Tests

Search tests...

✓ GOOGLE SEARCH*

Unt   Rename
       Duplicate
       Delete
       Export

https://www.google.co.in/webhp

		Command	Target	Value
3		✓ type	id=APjFqb	software testing tutorial
4		✓ click	css=.LLD4me	
5		✓ click	css=.LLD4me	
6		✓ double click	css=.LLD4me	
7		✓ click	css=center:nth-child(1) > .gNO89b	
8		✓ run script	window.scrollTo(0,361.6000061035156)	
9		✓ click	css=.g:nth-child(5) .LC20lb	
10	//	✓ close		

Command

Target

Value

Description

Log   Reference

5. click on css=.LLD4me OK   23:02:06
6. doubleClick on css=.LLD4me OK   23:02:07
7. click on css=center:nth-child(1) > .gNO89b OK   23:02:09
8. runScript on window.scrollTo(0,361.6000061035156) OK   23:02:11
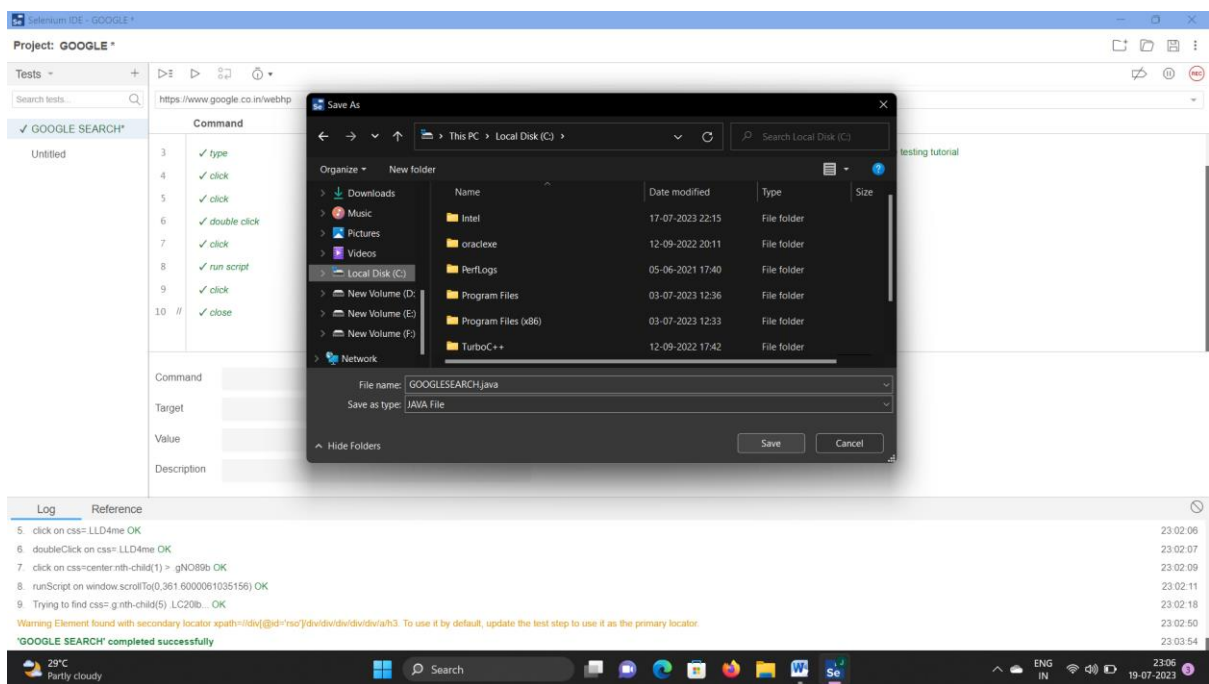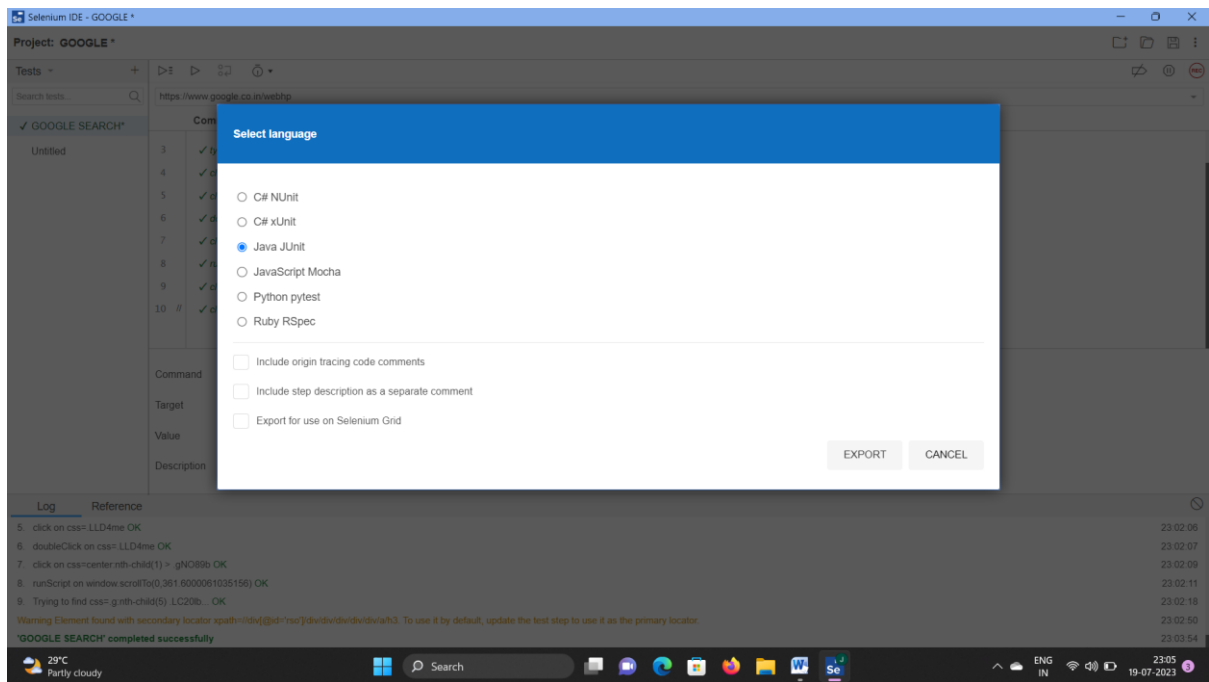9. Trying to find css=.g:nth-child(5) .LC20lb... OK   23:02:18
Warning Element found with secondary locator xpath=//div[@id='rso']/div/div/div/div/div/a/h3. To use it by default, update the test step to use it as the primary locator.   23:02:50
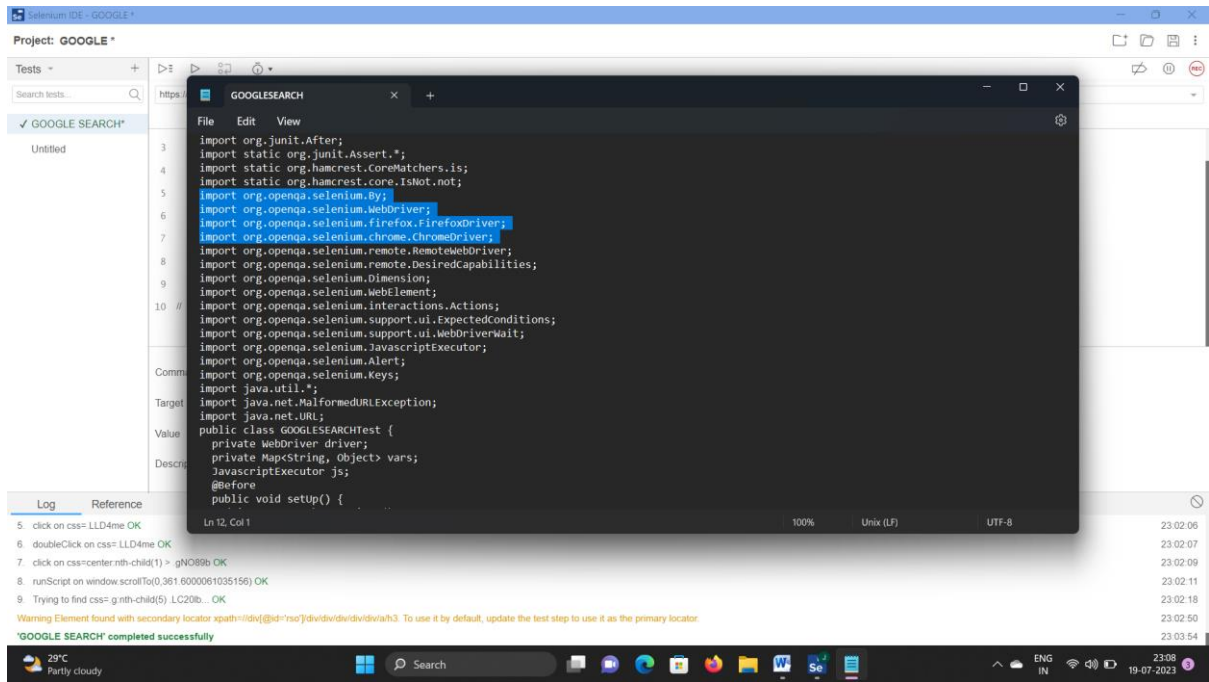'GOOGLE SEARCH' completed successfully   23:03:54

29°C Partly cloudy

ENG IN   23:05 19-07-2023

RESULT:

Thus Selenium IDE has been executed successfully with the test cases.

	WRITE A SCRIPT TO LAUNCH CHROME BROWSER AND OPEN WEB SITE USING CHROME BROWSER.

CODE:

```java
package googledemo;

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

public class CHROMEBROWSER {

    public static void main(String[] args) {

// LAUNCH BROWSER
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\
        chromedriver-win32\\chromedriver-win32\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();

// to open URL
            System.out.println("Browser Opened");
            driver.get("http://www.javatpoint.com/");

// to Maximize the window
            driver.manage().window().maximize();


// to get the titile of the web page
            System.out.println("Page title is : " + driver.getTitle());

//Close Browser
            driver.close();
            System.out.println("Browser Closed");

    }

}
```
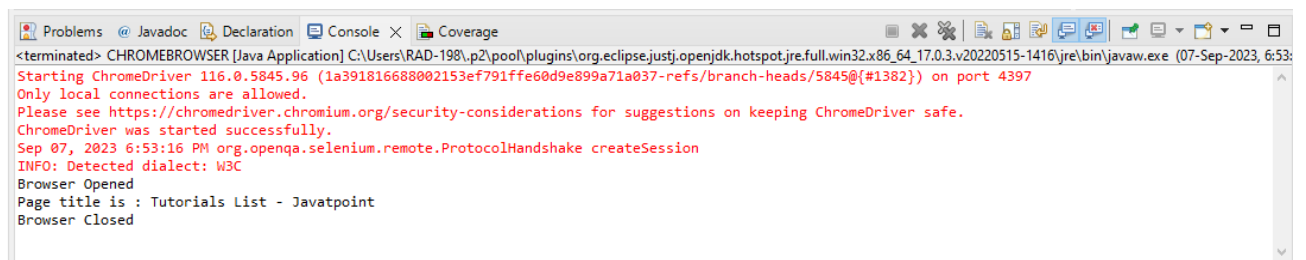
OUTPUT:


```
Problems  @ Javadoc  Declaration  Console  ×  Coverage
<terminated> CHROMEBROWSER [Java Application] C:\Users\RAD-198\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\jre\bin\javaw.exe  (07-Sep-2023, 6:53:
Starting ChromeDriver 116.0.5845.96 (1a391816688002153ef791ffe60d9e899a71a037-refs/branch-heads/5845@{#1382}) on port 4397
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 07, 2023 6:53:16 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Browser Opened
Page title is : Tutorials List - Javatpoint
Browser Closed
```

RESULT:

The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO LAUNCH FIREFOX BROWSER AND OPEN WEB SITE USING FIREFOX BROWSER.

CODE:

```
package googledemo;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class firefoxdriver {

        public static void main(String[] args) {

// Launch Web Browser

                System.setProperty("webdriver.gecko.driver","D:\\SUBA\\DRIVERS\\
        geckodriver-v0.33.0-win32\\geckodriver.exe");
                WebDriver driver= new FirefoxDriver();


// to open URL
                System.out.println("Browser Opened");
                driver.get("http://www.javatpoint.com/");


        }
}
```

OUTPUT:

RESULT:
The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST THE WEBPAGE AND DISPLAY RESULT USING JAVASCRIPT CODE.

CODE:

```
package googledemo;

import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class script {

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

// To Launch Browser
```
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS
        \\chromedriver-win32\\chromedriver-win32\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();
```

// to maximize the window
```
        driver.manage().window().maximize();
```

// open url
```
        driver.get("https://www.javatpoint.com/");
```

// Javascript Code to display message
```
        JavascriptExecutor js = (JavascriptExecutor) driver;
        js.executeScript("window.scrollBy(0,4550)");
        js.executeScript("alert('Welcome to Javatpoint');");
```

// to close Browser
```
        driver.close();
    }
}
```
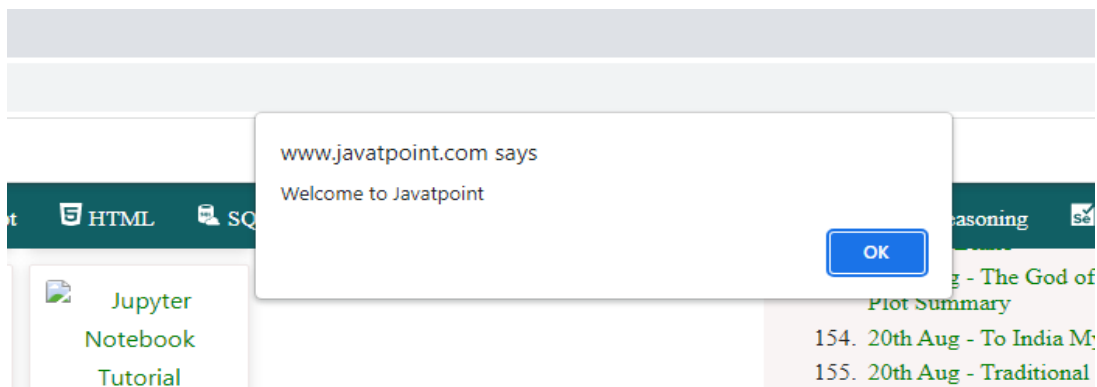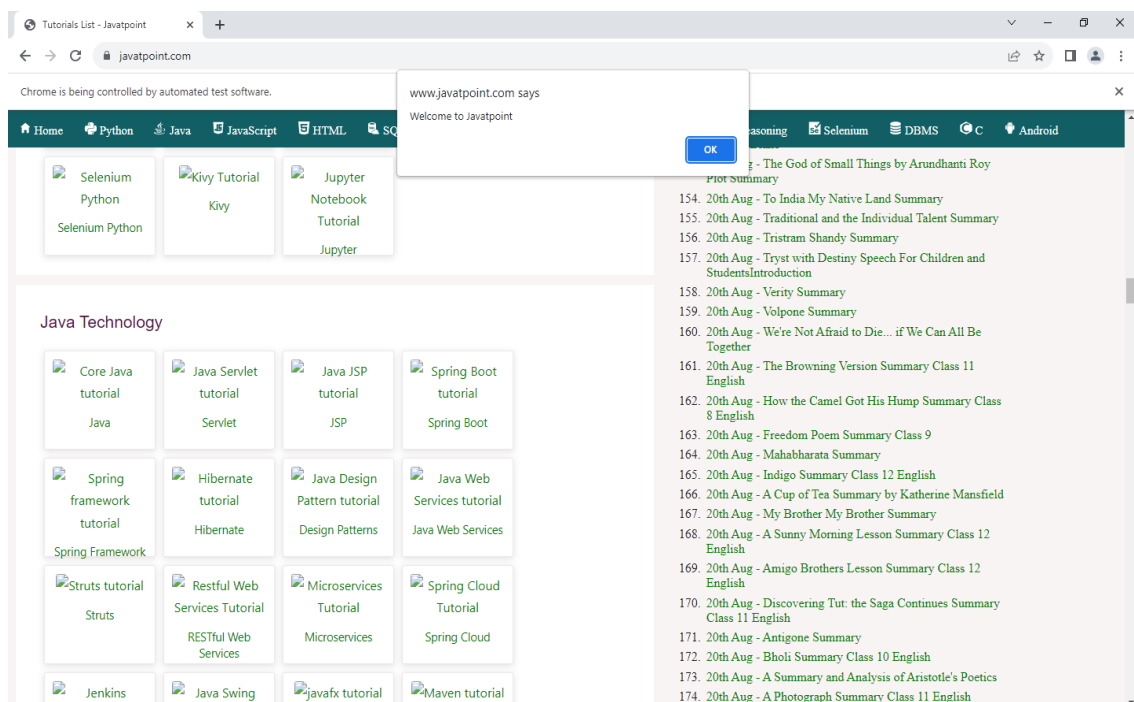
OUTPUT:

RESULT:

The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST THE WEBPAGE WITH LINKTEXT, PARTIALLINKTEXT AND NAVIGATE METHOD.

CODE:

```java
package googledemo;

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

import java.time.Duration;
import java.util.*;
import java.util.concurrent.TimeUnit;

public class LOCATIONBYID {

    public static void main(String[] args) {

//launch web browser
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\chro
        medriver-win32\\chromedriver-win32\\chromedriver.exe");
        WebDriver driver=new ChromeDriver();

// to maximize the window
        driver.manage().window().maximize();

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

// to get the title of the web page
        System.out.println("Title of the Web Page : " + driver.getTitle()+"\n");

//link text by selecting Gmail
        System.out.println("LINK TEXT");
        System.out.println("**********");
        WebElement g=driver.findElement(By.linkText("Gmail"));
        g.click();
        System.out.println("Title of Gmail link : " + driver.getTitle());
        driver.navigate().back();
        driver.navigate().refresh();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

//link text by selecting Images
```
WebElement i=driver.findElement(By.linkText("Images"));
i.click();
System.out.println("Title of Images link : " + driver.getTitle());
driver.navigate().back();
driver.navigate().refresh();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

//link text by selecting Sign in
```
driver.findElement(By.linkText("Sign in")).click();
System.out.println("Title of Sign in link : " + driver.getTitle());
driver.navigate().back();
driver.navigate().refresh();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

//link text by selecting About
```
driver.findElement(By.linkText("About")).click();
System.out.println("Title of About link : " + driver.getTitle());
driver.navigate().back();
driver.navigate().refresh();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

//partial link text by selecting Advertisement
```
System.out.println("\n"+"PARTIAL LINK TEXT");
System.out.println("*****************");
driver.findElement(By.partialLinkText("Advert")).click();
System.out.println("Title of Advertising link : " + driver.getTitle());
driver.navigate().back();
driver.navigate().refresh();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

//partial link text by selecting Google Search
```
driver.findElement(By.partialLinkText("Search")).click();
System.out.println("Title of How Search works link : " +
driver.getTitle());
driver.navigate().back();
driver.navigate().refresh();
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```
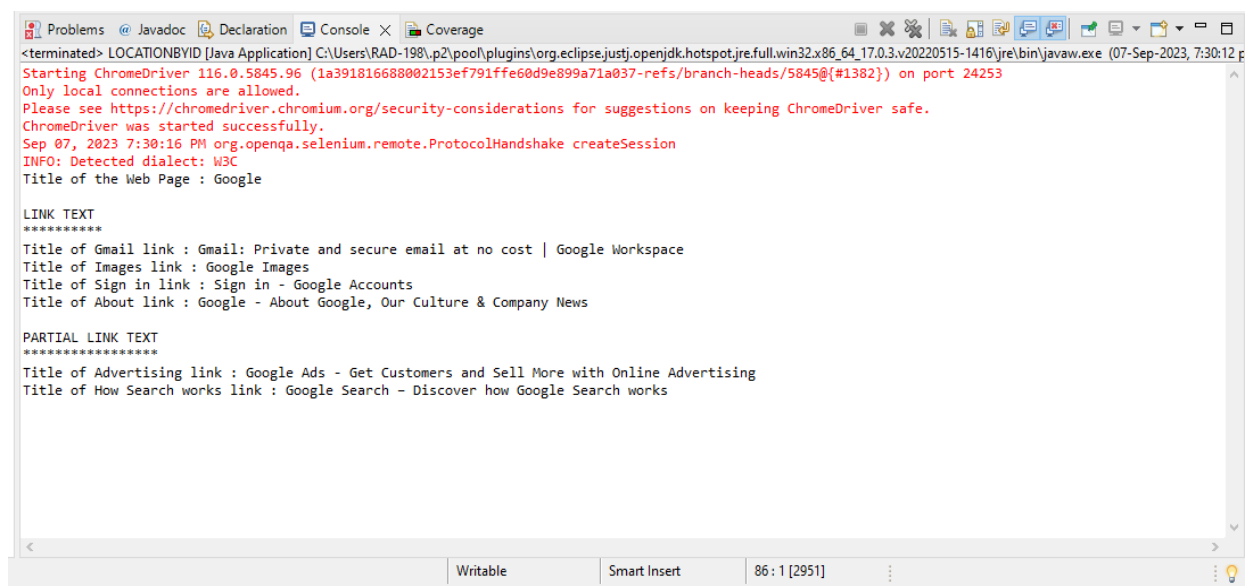
// to close the browser
```
driver.close();
    }

}
```

OUTPUT:

```
Problems  @ Javadoc  Declaration  Console  X  Coverage
<terminated> LOCATIONBYID [Java Application] C:\Users\RAD-198\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\jre\bin\javaw.exe (07-Sep-2023, 7:30:12 p
Starting ChromeDriver 116.0.5845.96 (1a391816688002153ef791ffe60d9e899a71a037-refs/branch-heads/5845@{#1382}) on port 24253
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 07, 2023 7:30:16 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Title of the Web Page : Google

LINK TEXT
**********
Title of Gmail link : Gmail: Private and secure email at no cost | Google Workspace
Title of Images link : Google Images
Title of Sign in link : Sign in - Google Accounts
Title of About link : Google - About Google, Our Culture & Company News

PARTIAL LINK TEXT
*****************
Title of Advertising link : Google Ads - Get Customers and Sell More with Online Advertising
Title of How Search works link : Google Search - Discover how Google Search works
```

| | Writable | Smart Insert | 86 : 1 [2951] | | |

RESULT:

The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST THE WEBPAGE WITH GETMETHOD().

CODE:

HTML Program [success.html]

```html
<html>
        <title>Log in Page</title>
        <form action="linktext.html" method="post">

                <label for="uname"><b>Username</b></label>
                <input type="text" placeholder="Enter Username" id="uname"><br>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" id="psw"><br>

    <button type="submit" id="SubmitLogin">Login</button><br>

</form>
</html>
```

Web Driver Program

```java
package googledemo;


import java.awt.*;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class getmethods_prg {

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

// To launch web browser
```java
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\chro
        medriver-win32\\chromedriver-win32\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();
```

// to maximize the window
```java
         driver.manage().window().maximize();
```

15

// open url
```
driver.get("file:///D:/SUBA/selenium%20html%20programs/success.html");
```

//getting current web site
```
System.out.println("Current Website openend : " + driver.getCurrentUrl());
```

//get title of the web page
```
System.out.println("Title of the Web Page : " + driver.getTitle());
```

// get Attribute value of the specific id
```
WebElement gt = driver.findElement(By.id("uname"));
System.out.println("Text of the username : " +gt.getAttribute("placeholder"));
```

// get tag name of the specific id
```
System.out.println("Tag of the username : " +gt.getTagName());
```

// get the source code
```
System.out.println("Get Source of the Web Page : \n\n" +
driver.getPageSource());
        }

}
```

OUTPUT:

```
INFO: Detected dialect: W3C
Current Website openend : file:///D:/SUBA/selenium%20html%20programs/success.html
Title of the Web Page : Log in Page
Text of the username : Enter Username
Tag of the username : input
Get Source of the Web Page :

<html><head><title>Log in Page</title>
</head><body><form action="linktext.html" method="post">

    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username" id="uname"><br>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" id="psw"><br>

    <button type="submit" id="SubmitLogin">Login</button><br>

</form>
</body></html>
```

RESULT:
The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST GOOGLE WITH TEST CASES USING SUBMIT BUTTON.

CODE:
```
package googledemo;
import java.util.concurrent.TimeUnit;

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

public class submitkey {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\
        chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
        WebDriver driver=new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.google.com/");
        System.out.println("Title : " + driver.getTitle());

        WebElement g=driver.findElement(By.id("APjFqb"));
        g.sendKeys("software testing");
        g.submit();

        WebElement g1=driver.findElement(By.partialLinkText("Software Testing"));
        g1.click();
        System.out.println("Title : " + driver.getTitle());

        driver.navigate().back();
        driver.navigate().refresh();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        System.out.println("Title : " + driver.getTitle());

        driver.navigate().back();
        driver.navigate().refresh();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        System.out.println("Title : " + driver.getTitle());
        driver.close();
}
}
```

OUTPUT:

```
Sep 14, 2023 5:46:39 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Title : Google
Title : What is Software Testing and How Does it Work? | IBM
Title : software testing - Google Search
Title : Google
```

RESULT:

      The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST GOOGLE WITH TEST CASES USING ENTER KEY.

CODE:

```java
package googledemo;
import java.util.concurrent.TimeUnit;
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.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.Keys;

public class enterkey {

    public static void main(String[] args) {

// To Launch web browser
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\
        chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
            WebDriver driver=new ChromeDriver();

// to maximize the window
            driver.manage().window().maximize();
            driver.get("https://www.google.com/");
            System.out.println("Title : " + driver.getTitle());


        driver.findElement(By.id("APjFqb")).sendKeys("Software Testing",
                                        Keys.ENTER);
        WebElement g1=driver.findElement(By.partialLinkText("Software
                                        Testing"));
        g1.click();
        System.out.println("Title : " + driver.getTitle());

            driver.navigate().back();
            driver.navigate().refresh();
            driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
            System.out.println("Title : " + driver.getTitle());

            driver.navigate().back();
            driver.navigate().refresh();
            driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
```

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

        }

    }
```

OUTPUT:

```
<terminated> enterkey [Java Application] C:\Users\RAD-198\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win3
Sep 14, 2023 5:55:07 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Title : Google
Title : What is Software Testing and How Does it Work? | IBM
Title : Software Testing - Google Search
Title : Google
```

RESULT:

The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST LOG IN PAGE.

CODE:

HTML Program [success.html**]**

```html
<html>
        <title>Log in Page</title>
        <form action="linktext.html" method="post">

                <label for="uname"><b>Username</b></label>
                <input type="text" placeholder="Enter Username" id="uname"><br>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" id="psw"><br>

    <button type="submit" id="SubmitLogin">Login</button><br>

</form>
</html>
```

Web Driver Program

```java
package googledemo;

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

import java.time.Duration;
import java.util.*;
import java.util.concurrent.TimeUnit;

public class logincheck {

    public static void main(String[] args) {

//launch browser
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\chro
        medriver-win32\\chromedriver-win32\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();
```

// to open url
```
        driver.get("file:///D:/SUBA/selenium%20html%20programs/success.html");
```

// to maximize the window
```
        driver.manage().window().maximize();
```

// Get the WebElement corresponding to the username Field
```
        WebElement un = driver.findElement(By.id("uname"));
```

// Get the WebElement corresponding to the Password Field
```
        WebElement pass = driver.findElement(By.id("psw"));

        driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
```

// Pass values to username and password using sendkeys
```
        un.sendKeys("mrityunjayarasu@gmail.com");
        pass.sendKeys("Happy");
```

// GetAttribute value of username and password
```
        var un1=un.getAttribute("value");
        var pass1=pass.getAttribute("value");
        System.out.println("Username passed in text box  : "+un1);
        System.out.println("Password passed in text box  : "+pass1);
```

//Check Passing values using sendkeys and Attribute values are equal
```
if(un1.contentEquals("mrityunjayarasu@gmail.com") && pass1.contentEquals("Happy"))
        {
                driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
                WebElement login = driver.findElement(By.id("SubmitLogin"));
                login.click();
                driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
                System.out.println("Match Occurs - Login Done with Click");
        }
else
        {
                System.out.println("Not Match - Username or Password Incorrect");
        }
}
}
```

OUTPUT:

```
Starting ChromeDriver 116.0.5845.96 (1a391816688002153ef791ffe60d9e899a71a037-refs/branch-heads/5845@{#1382}) on port 25372
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 08, 2023 7:18:37 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Username passed in text box  : mrityunjayarasu@gmail.com
Password passed in text box  : Happy
Match Occurs - Login Done with Click
```

RESULT:
         The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST THE DESIGNED WEB SITE USING VERIFICATION POINT WITH GETTITLE().

CODE:

```java
package googledemo;

import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class googleurl {

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

//launch browser
```java
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\
        chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
        WebDriver driver=new ChromeDriver();
```

// to maximize the window
```java
         driver.manage().window().maximize();
```

// open url
```java
         driver.get("https://www.javatpoint.com/");
```

//getting current web site
```java
        System.out.println("Current Website openend : " + driver.getCurrentUrl());
```

// getting title of the web page
```java
        String actualres = driver.getTitle();
        System.out.println("Title of the Web Page - Actual Result :  " + actualres);

        String expres = "Google";
        System.out.println("Title of the Web Page - Expected Result :  " + expres);
```
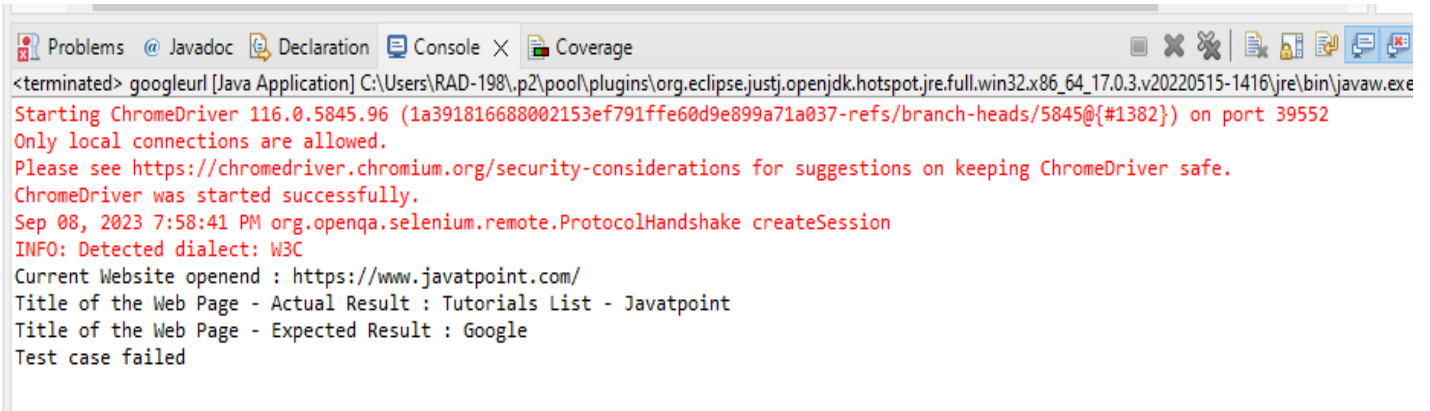
//check test case pass and fail
```java
        if (actualres.contentEquals(expres))
                System.out.println("Test case Passed Successfully");
        else
                System.out.println("Test case failed");

        driver.close();
```

```
        }
}
```

OUTPUT:

```
Problems  @ Javadoc  Declaration  Console ✕  Coverage                     ▪ ✖ ✖ | ⟐ ⟐ ⟐ ⟐ ⟐
<terminated> googleurl [Java Application] C:\Users\RAD-198\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\jre\bin\javaw.exe
Starting ChromeDriver 116.0.5845.96 (1a391816688002153ef791ffe60d9e899a71a037-refs/branch-heads/5845@{#1382}) on port 39552
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 08, 2023 7:58:41 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Current Website openend : https://www.javatpoint.com/
Title of the Web Page - Actual Result : Tutorials List - Javatpoint
Title of the Web Page - Expected Result : Google
Test case failed
```

RESULT:
The program is executed successfully and thus the expected output is obtained.

	WRITE A SCRIPT TO TEST THE LOG IN PAGE USING VERIFICATION POINT WITH GETATTRIBUTE().

CODE:

HTML Program [success1.html]

```
<html>
<title>Log in Page</title>
<form action="linktext.html" method="post">

    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username" id="uname"
                                    value="mrityunjayarasu@gmail.com"><br>

    <label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" id="psw" value="Hello"><br>

    <button type="submit" id="SubmitLogin">Login</button><br>

</form>
</html>
```

Web Driver Program

```
package googledemo;

import java.util.concurrent.TimeUnit;

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

public class verificationptgetattri {

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

//launch browser

```
        System.setProperty("webdriver.chrome.driver","D:\\SUBA\\DRIVERS\\
        chromedriver-win32\\chromedriver-win32\\chromedriver.exe");
        WebDriver driver=new ChromeDriver();
        driver.get("file:///D:/SUBA/selenium%20html%20programs/success1.html");
```

// to maximize the window

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

// Get the WebElement corresponding to the username Field
WebElement un = driver.findElement(By.id("uname"));

// Get the WebElement corresponding to the Password Field
WebElement pass = driver.findElement(By.id("psw"));

driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);

// GetAttribute value of username and password
var un1=un.getAttribute("value");
var pass1=pass.getAttribute("value");
System.out.println("Username passed as value in HTML Program : "+un1);
System.out.println("Password passed as value in HTML Program : "+pass1);

// Check Verification point of Actual result match with Expected Result
if(un1.contentEquals("mrityunjayarasu@gmail.com") && pass1.contentEquals("Hello"))
        {
                driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);

                WebElement login = driver.findElement(By.id("SubmitLogin"));
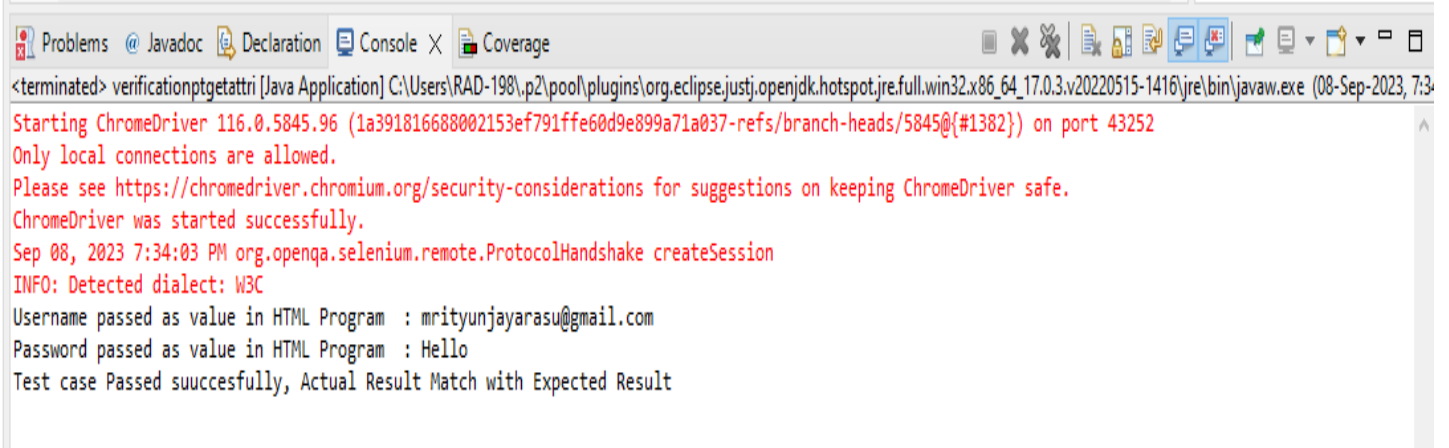
                login.click();

                driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);

                System.out.println("Test case Passed suuccesfully, Actual Result
                                Match with Expected Result");
        }
else
        {
          System.out.println("Test case Failed, Actual Result Not Match with
                        Expected Result");
        }
          driver.quit();

}
        }

OUTPUT:

```
Problems  @ Javadoc  Declaration  Console X  Coverage

<terminated> verificationptgetattri [Java Application] C:\Users\RAD-198\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\jre\bin\javaw.exe (08-Sep-2023, 7:34

Starting ChromeDriver 116.0.5845.96 (1a391816688002153ef791ffe60d9e899a71a037-refs/branch-heads/5845@{#1382}) on port 43252
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 08, 2023 7:34:03 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Username passed as value in HTML Program  : mrityunjayarasu@gmail.com
Password passed as value in HTML Program  : Hello
Test case Passed suuccesfully, Actual Result Match with Expected Result
```

RESULT:

The program is executed successfully and thus the expected output is obtained.

	WRITE A PROGRAM TO PERFORM ARITHMETIC OPERATIONS USING JUNIT

CODE: [Java Program]

```java
package testingprograms;

    public class Junitarithmetic
    {
            public static int add(int number1, int number2)
                {
                    return number1 + number2;
                }

            public static int sub(int number1, int number2)
                {
            return number1 - number2;
                }

            public static int mul(int number1, int number2)
                {
            return number1 * number2;
                }
    }
```

CODE: [JUNIT Program]

```java
    package testingprograms;

    import static org.junit.Assert.assertEquals;
    import static org.junit.jupiter.api.Assertions.*;

    import org.junit.jupiter.api.Test;

    class JunitarithmeticTest {
            Junitarithmetic a=new Junitarithmetic();

@Test
    void testadd()
    {
            assertEquals("error",  15, a.add(10,5));
            assertEquals("error",  25, a.add(10,15));
            assertEquals("error",  11, a.add(10,1));
    }
```

```java
@Test
    void testsub()
    {
            assertEquals("error",  8, a.sub(10,2));
            assertEquals("error",  10, a.sub(15,5));
            assertEquals("error",  11, a.sub(15,4));
    }

@Test
    void testmul()
    {
            assertEquals("error",  20, a.mul(10,2));
            assertEquals("error",  25, a.mul(5,5));
            assertEquals("error",  60, a.mul(15,4));
    }

@Test
    void testaddfail()
    {
            assertEquals("error",  17, a.add(10,5));
    }

@Test
    void testsubfail()
    {
            assertEquals("error",  18, a.sub(10,2));
    }

@Test
    void testmulfail()
    {
            assertEquals("error",  30, a.mul(10,2));
    }
}
```
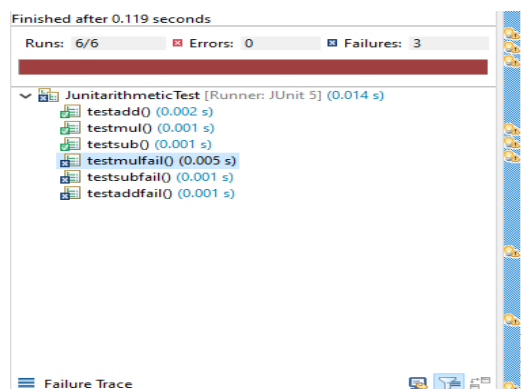
OUTPUT:

RESULT:

    The program is executed successfully and thus the expected output is obtained.

	WRITE A PROGRAM TO FIND BIGGEST AMONG THREE NUMBERS USING JUNIT

CODE [Java Program]

```java
package testingprograms;

public class junitbig {
    public static int big (int a,int b,int c)
    {
        if ((a>b) && (a>c))
            return a;
        else if (b>c)
            return b;
        else
            return c;

    }
}
```

JUNIT Program

```java
package testingprograms;

import static org.junit.Assert.assertEquals;
import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.Test;

class junitbigTest {

    junitbig c=new junitbig();

    @Test
    public void testbig() {
        //fail("Not yet implemented");
        assertEquals("error in biggest",  20, c.big (20,10,5));
        assertEquals("error in biggest",  50, c.big (20,50,10));
        assertEquals("error in biggest",  80, c.big (10,20,80));

    }

    @Test
    public void testbigfail() {
        assertEquals("error in biggest",  50, c.big (10,50,60));
        assertEquals("error in biggest",  5, c.big (50,10,5));
```
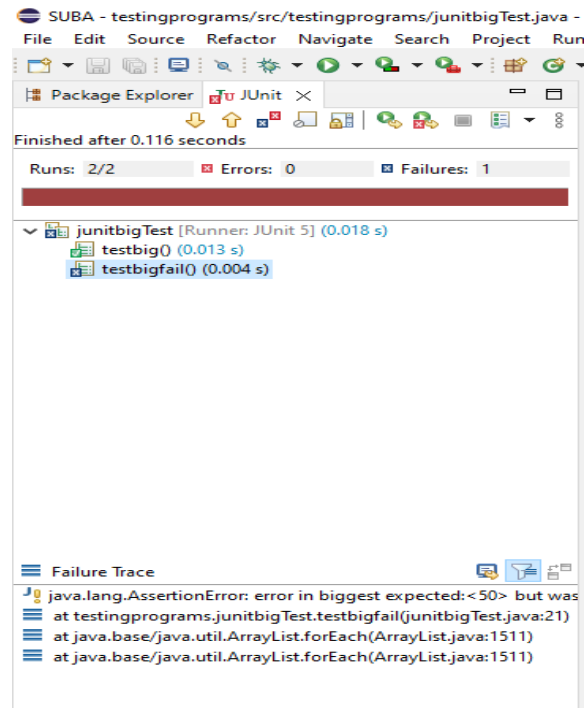
assertEquals("error in biggest", 40, <u>c.*big (10,50,40)*</u>);
    }
}

OUTPUT

RESULT:
        The program is executed successfully and thus the expected output is obtained.