install visual studio

link: https://visualstudio.microsoft.com/downloads/

open : Visual Studio

goto> File>New>Project.

select: UnitTestProject(.NET Framework) for Visual C# from the displayed project types

click: Next

Put The Project Name as : SeleniumProject

click> Create

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Installing Selenium Framework on Visual Studio

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Use below steps to install selenium webdriver package within Visual Studio

1. open visual studi 2019/2022

2. From Solution Explorer,

rightclick on Project> Manage NuGet Packages

click > Browse

search for: Selenium

install below packages

1. selenium.support

2. selenium.firfox.webdriver or selenium.googlechrome.webdriver

now serch for: NUnit

install below packages

1. NUnit3

2. NUnit 3 Test Adapter

This will install the require Selenium Libraries for the Project

Inside the project write below code

using Microsoft.VisualStudio.TestTools.UnitTesting;

using OpenQA.Selenium.Chrome;

using System;

namespace SeleniumProject

{

[TestClass]

public class UnitTest1

{

[TestMethod]

public void GCSearch()

{

using (var driver = new ChromeDriver()) {

driver.Manage().Window.Maximize();

driver.Navigate().GoToUrl("http://www.google.com");

}

}

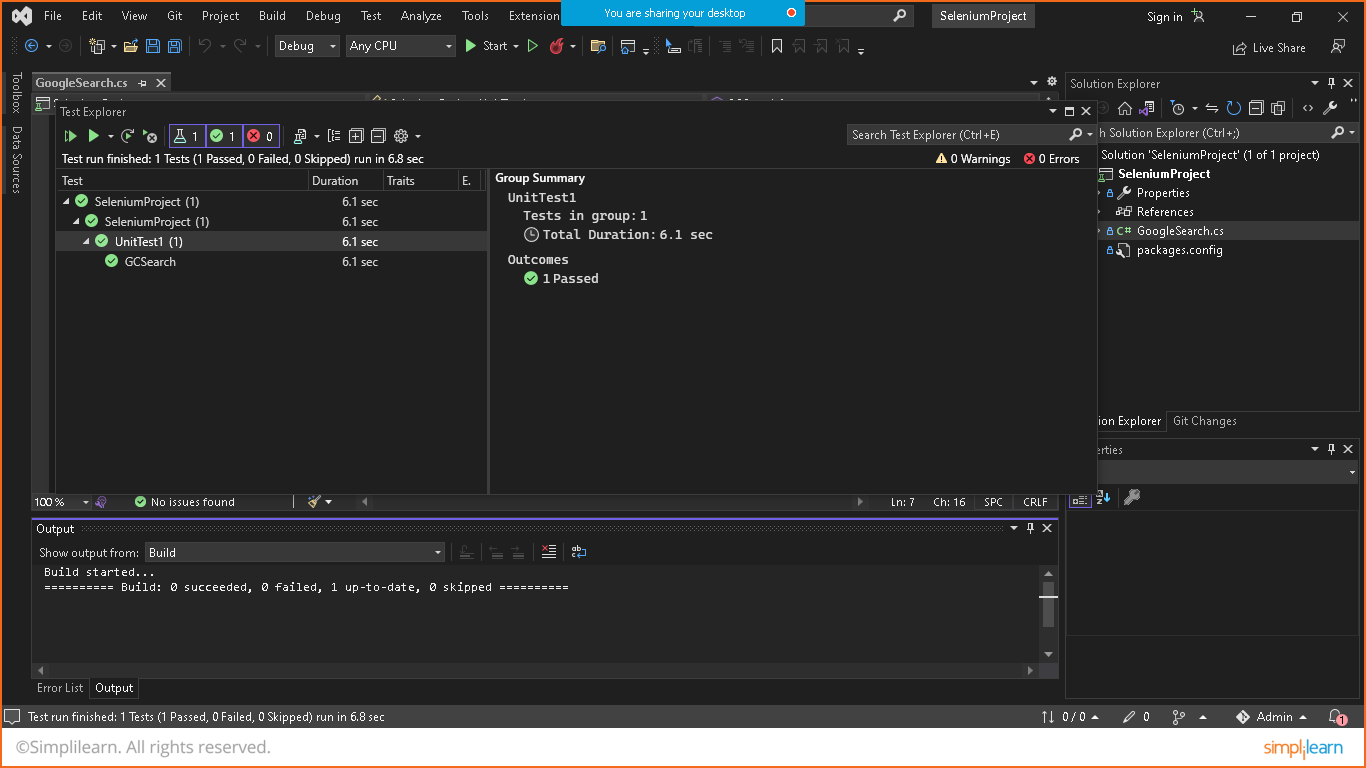
}

}

Goto> build>buildSolution

Once build is done without any error you can run your test scripts

Right click on project> runTest



And google chrome will open your url: [**www.google.com**](http://www.google.com) **and close it automatically**

Exercise:2 Locating WebElements By id and Name

using Microsoft.VisualStudio.TestTools.UnitTesting;

using OpenQA.Selenium;

using OpenQA.Selenium.Chrome;

using System;

namespace SeleniumProject

{

[TestClass]

public class UnitTest2

{

[TestMethod]

public void LocatingWebElements()

{

var driver = new ChromeDriver();

driver.Manage().Window.Maximize();

driver.Navigate().GoToUrl("http://www.facebook.com");

//finding webelement by id

By email = By.Id("email");

IWebElement EMAIL = driver.FindElement(email);

EMAIL.SendKeys("Nikunj@gmail.com");

;//finding webelement by id

By password = By.Id("pass");

IWebElement PASS = driver.FindElement(password);

PASS.SendKeys("Nikunj@123");

//finding webelement by name

By login = By.Name("login");

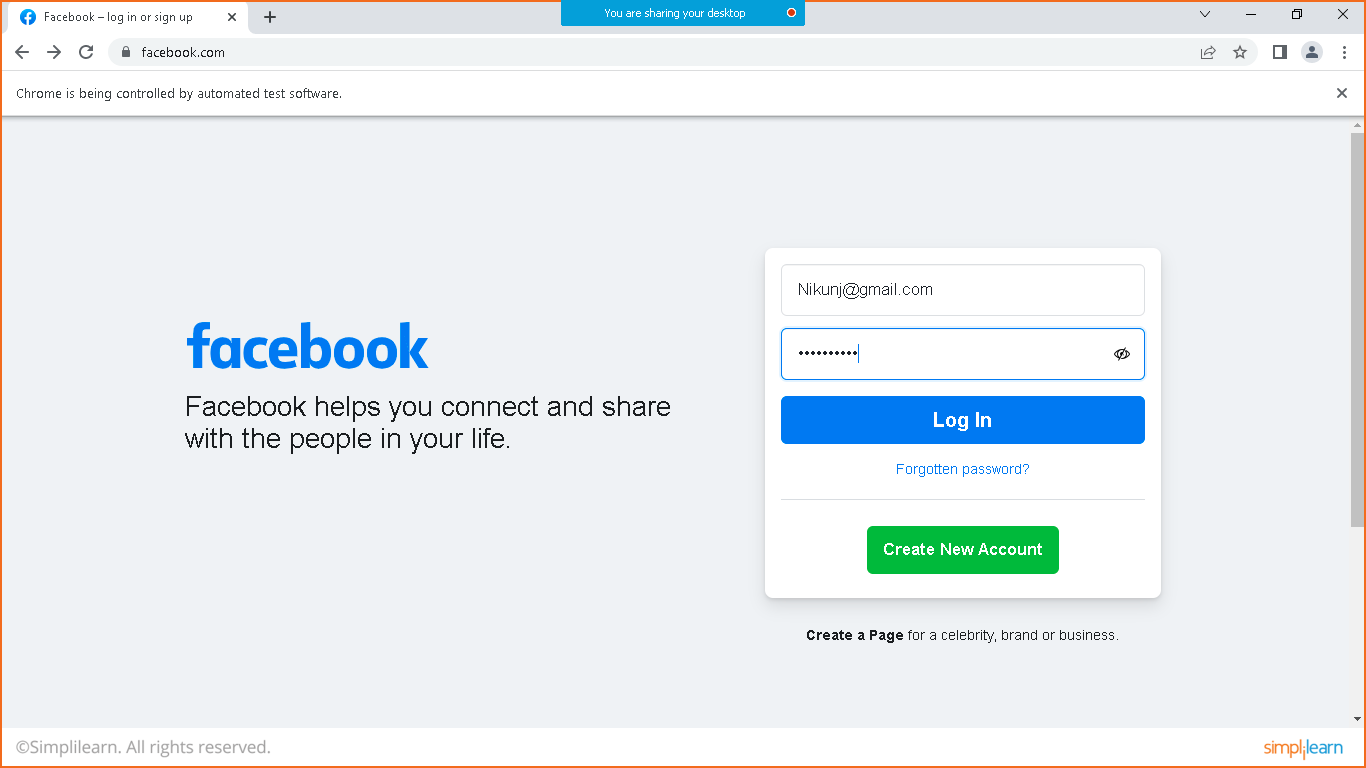
IWebElement LOGIN = driver.FindElement(login);

LOGIN.Submit();

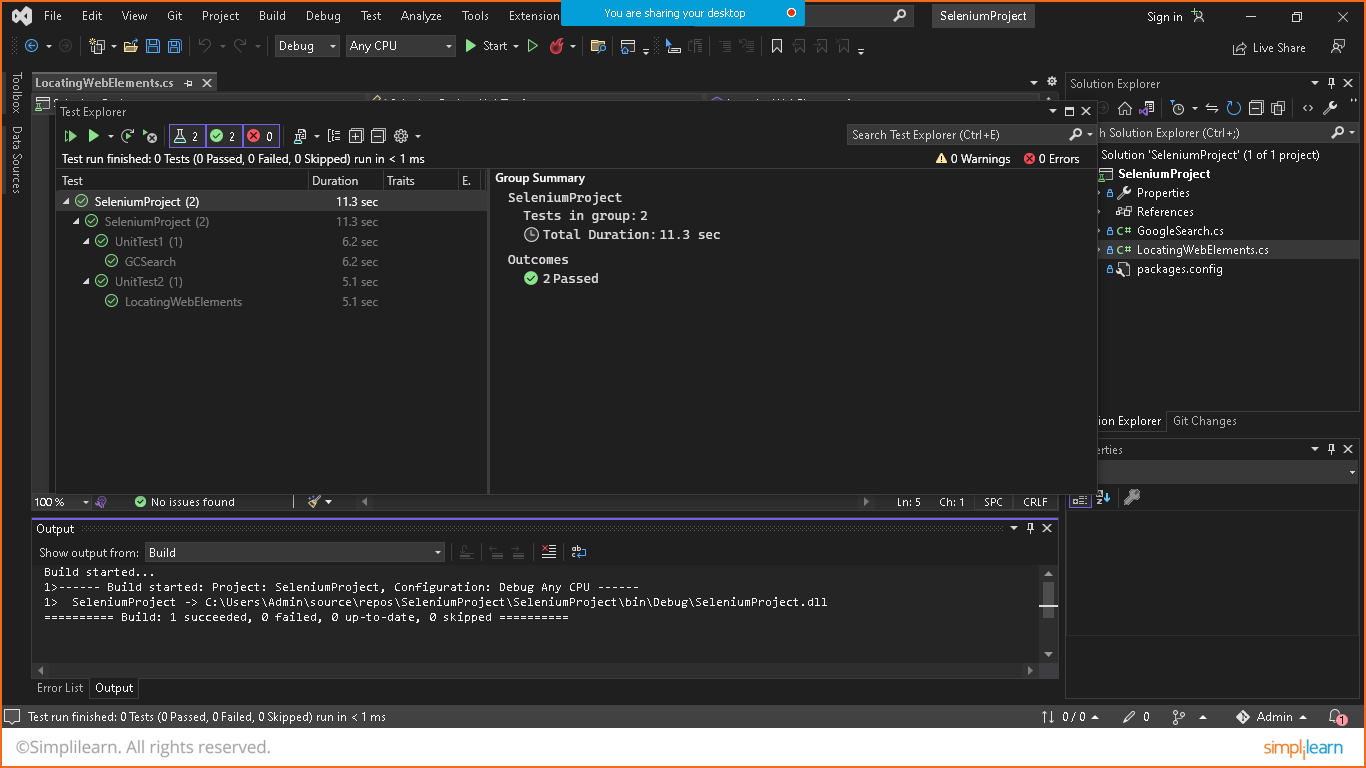
}

}

}



Test result:



Prepare another file with name

**LocatingWebElements2.cs**In the same project

Copy the code below

using Microsoft.VisualStudio.TestTools.UnitTesting;

using OpenQA.Selenium;

using OpenQA.Selenium.Chrome;

using System;

namespace SeleniumProject

{

[TestClass]

public class UnitTest3

{

[TestMethod]

public void LocatingWebElements()

{

var driver = new ChromeDriver();

driver.Manage().Window.Maximize();

driver.Navigate().GoToUrl("http://www.facebook.com");

//finding webelement by X path

By email = By.XPath("//\*[@id='email']");

IWebElement EMAIL = driver.FindElement(email);

//get attributes

Console.WriteLine(EMAIL.GetAttribute("placeholder"));

EMAIL.SendKeys("Nikunj@gmail.com");

/\*//finding webelement by full xpath

By password = By.XPath("/html/body/div[1]/div[1]/div[1]/div/div/div/div[2]/div/div[1]/form/div[1]/div[2]/div/input");

IWebElement PASS = driver.FindElement(password);

PASS.SendKeys("Nikunj@123");

//get attributes

Console.WriteLine(PASS.GetAttribute("placeholder"));\*/

//finding webelement by Selector

By password = By.CssSelector("#pass");

IWebElement PASS = driver.FindElement(password);

PASS.SendKeys("Nikunj@123");

//get attributes

Console.WriteLine(PASS.GetAttribute("placeholder"));

//finding webelement by name

By login = By.Name("login");

IWebElement LOGIN = driver.FindElement(login);

LOGIN.Submit();

//loacte webelement by linkedText

By linkedText = By.LinkText("Forgotten password?");

//complete this...

}

}

}

**Save it .**

**Build it. And run it**

