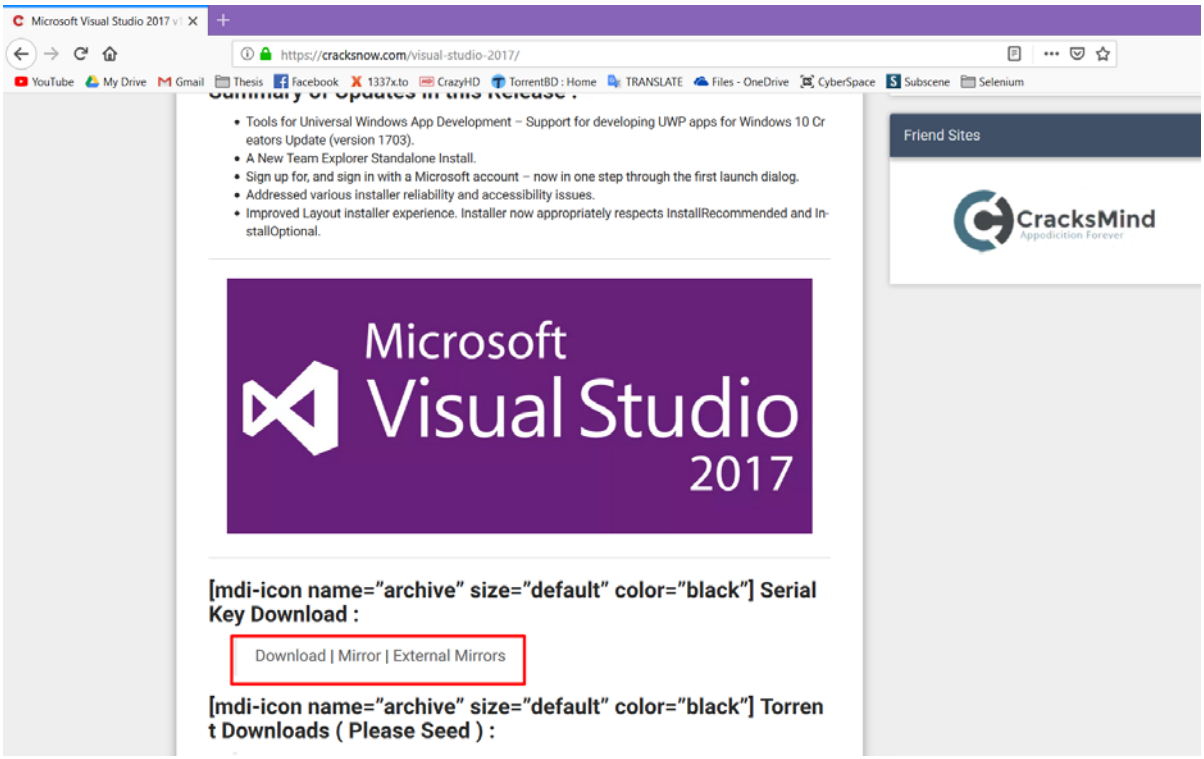
Step_01:

First, Download the Microsoft Visual Studio.

Link: https://cracksnow.com/visual-studio-2017

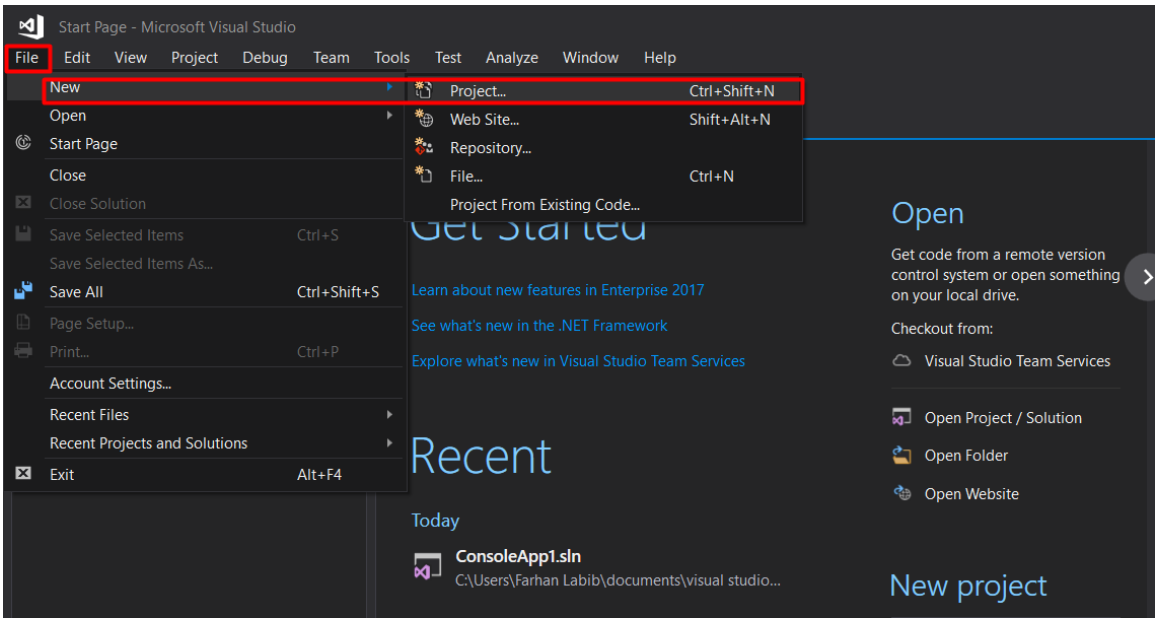
Then download and install it.

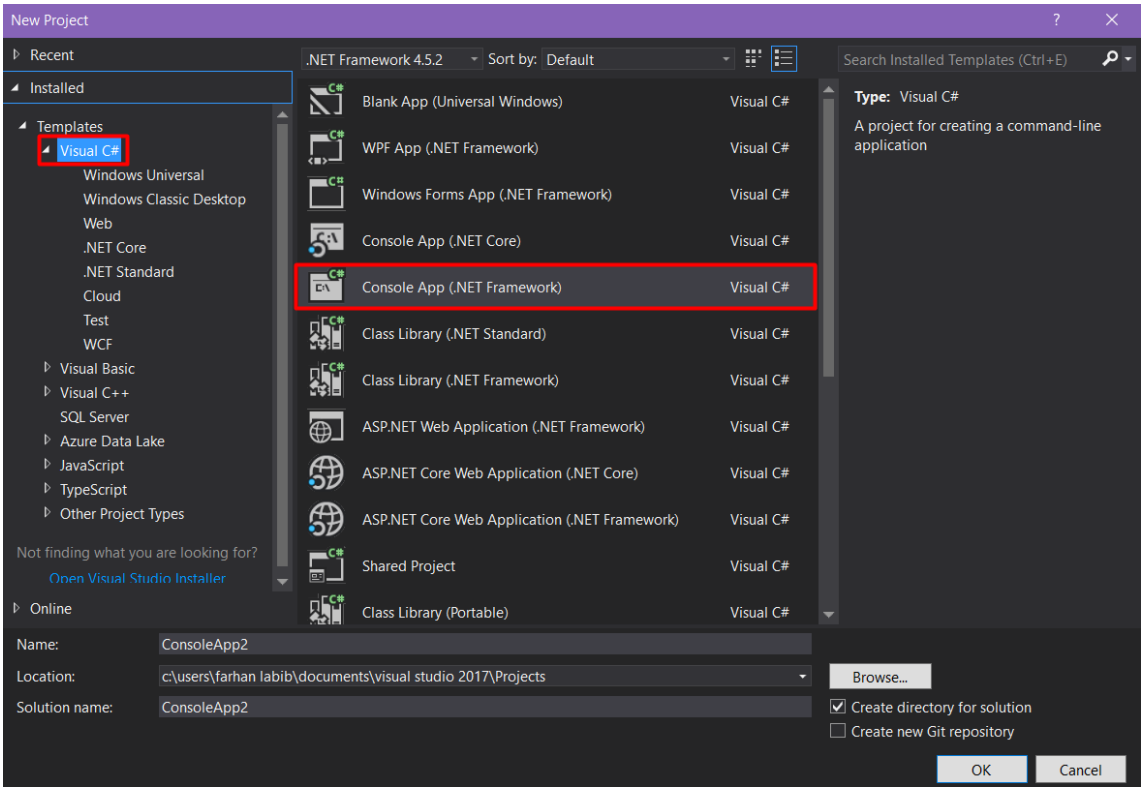


Step_02:

Open Visual Studio.

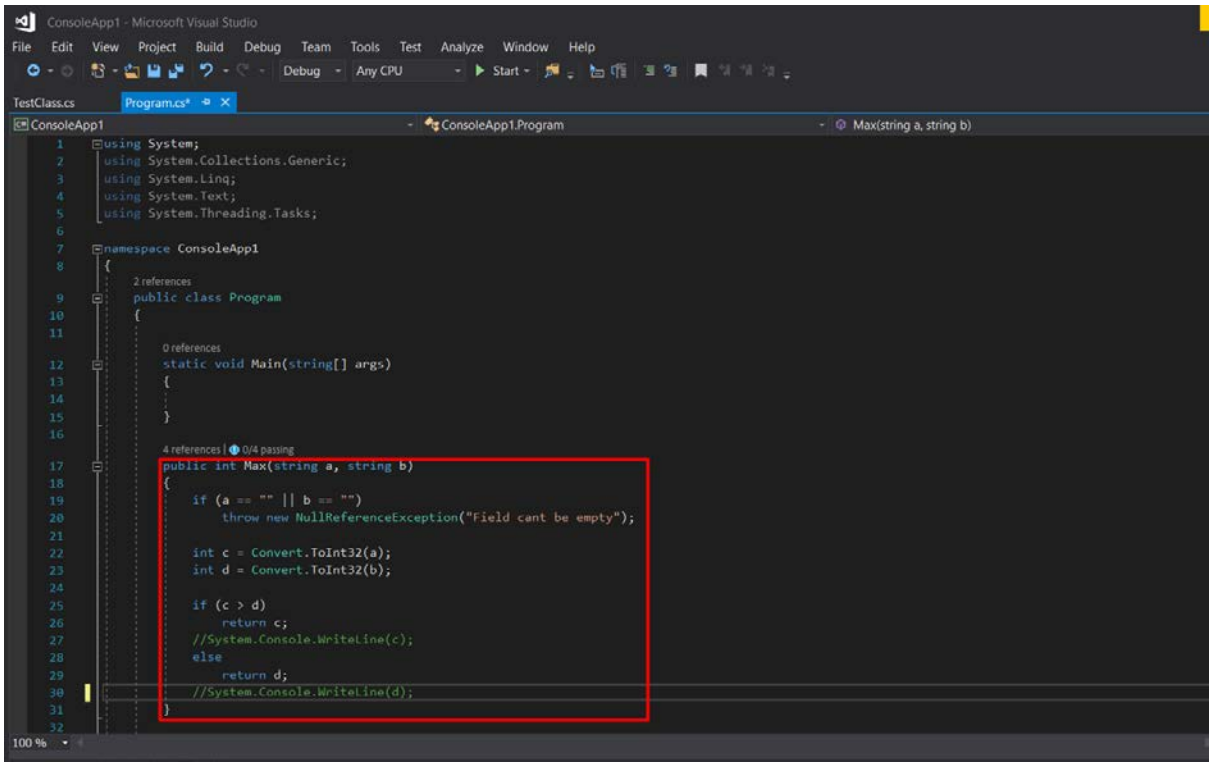
Then open your project or simply open File>New Project>Visual C#>Console App (.NET Framework)





Step_03:

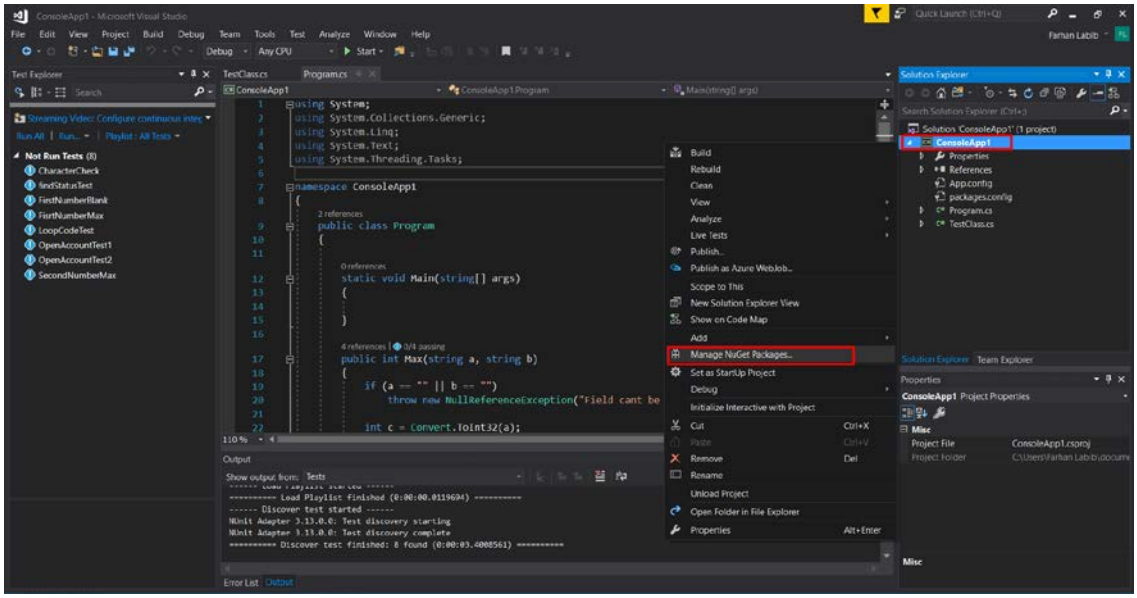
After open your project (or Simply write the given picture code)



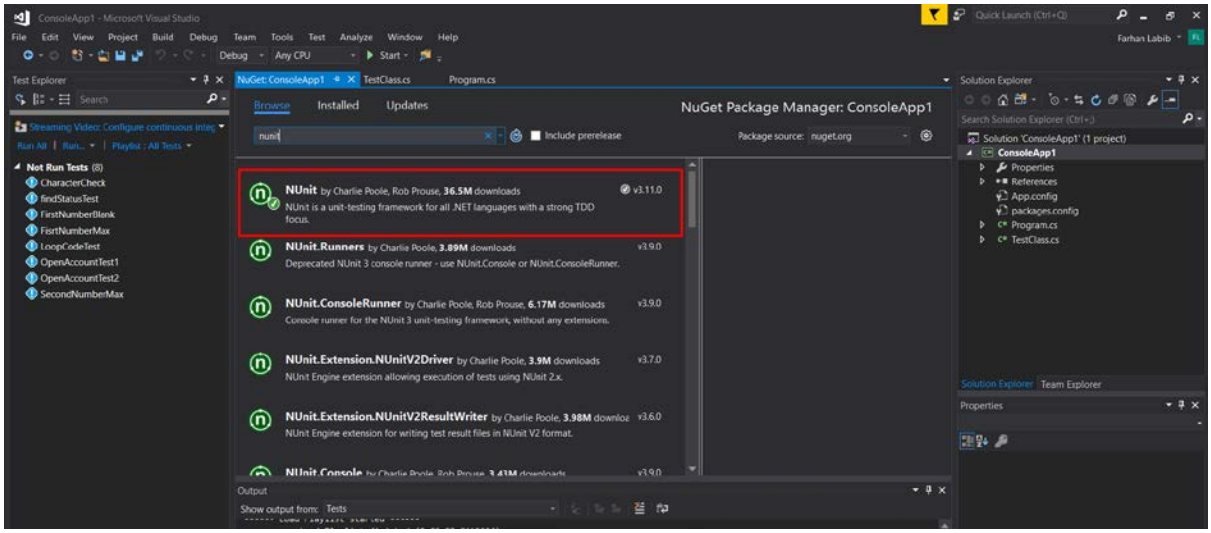
Its mainly a Maximum Function which is for calculate the Maximum number between two input number.

Step_04:

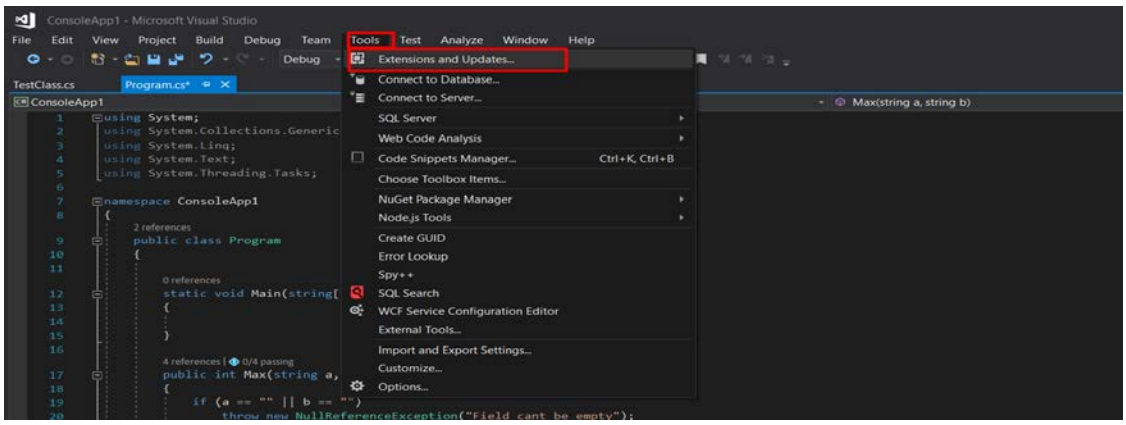
Now we have to set the NUnit Module. Right click on your project and Select Manage NuGet Packages.



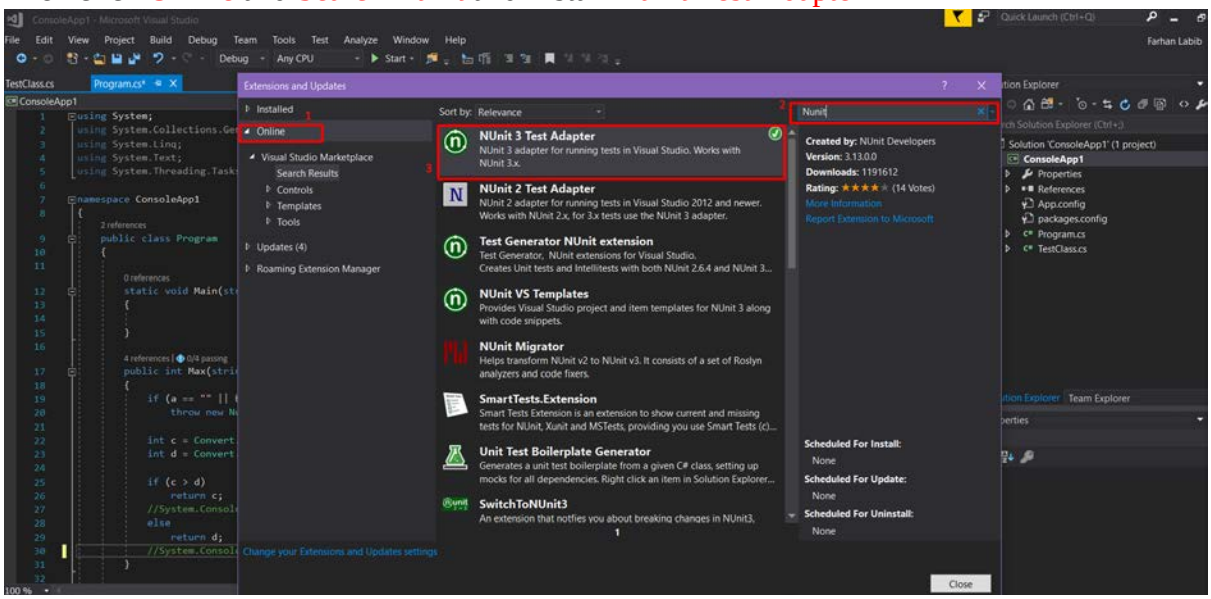
Then Search NUnit and Install it.



After that click on Tools>Extensions and Update

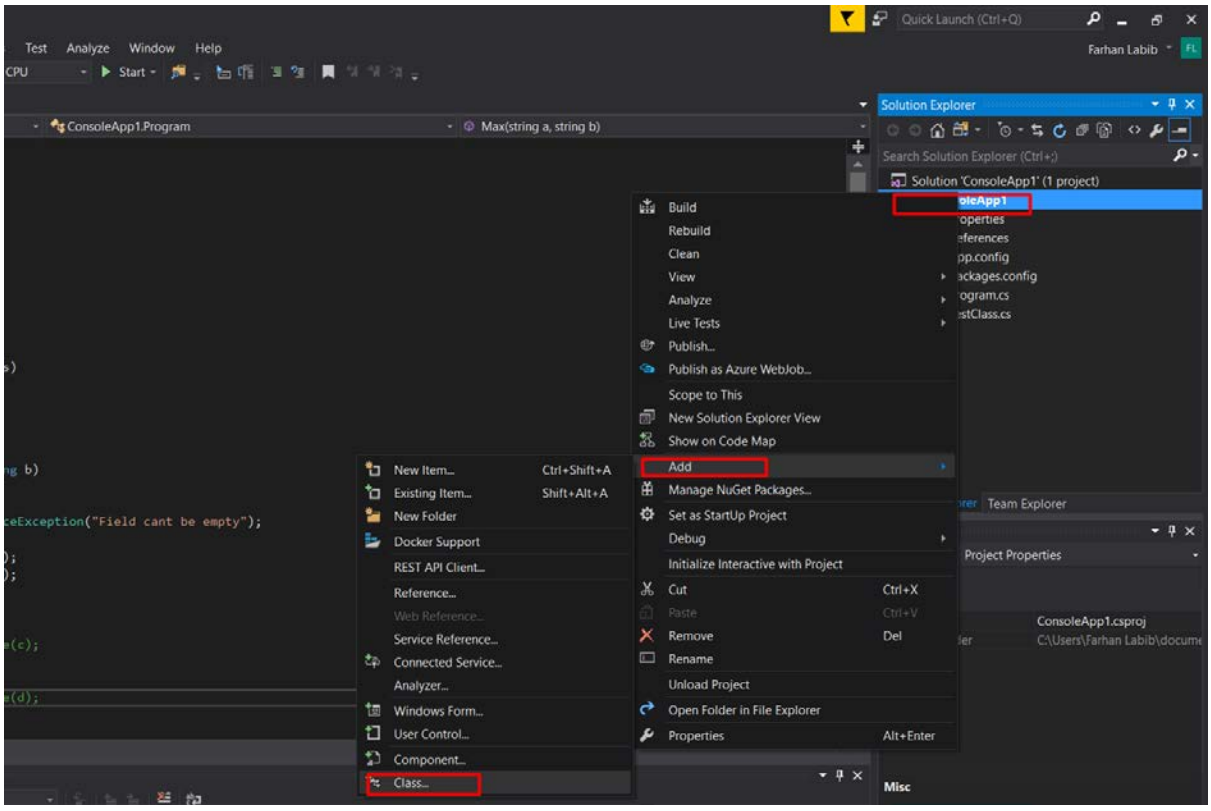


Then click Online and Search Nunit and Install Nunit Test Adapter

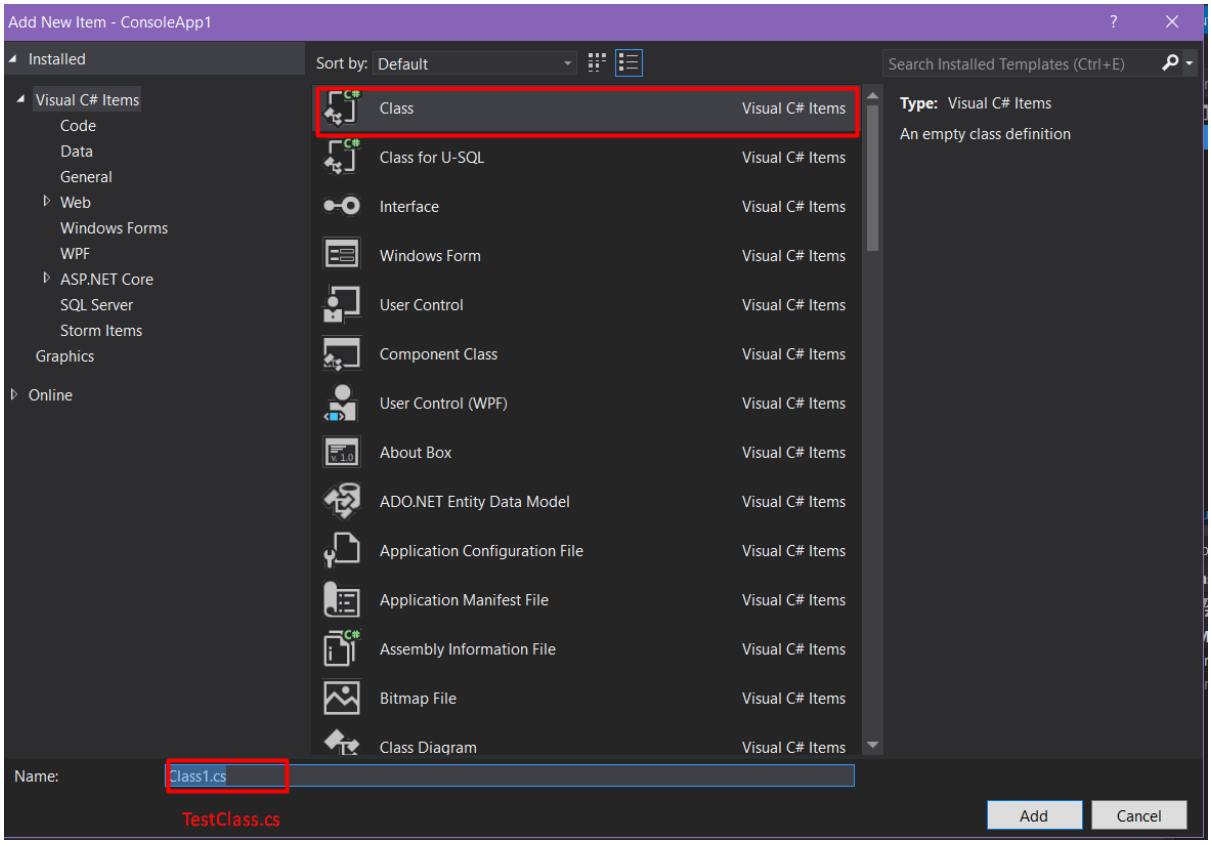


Step_05:

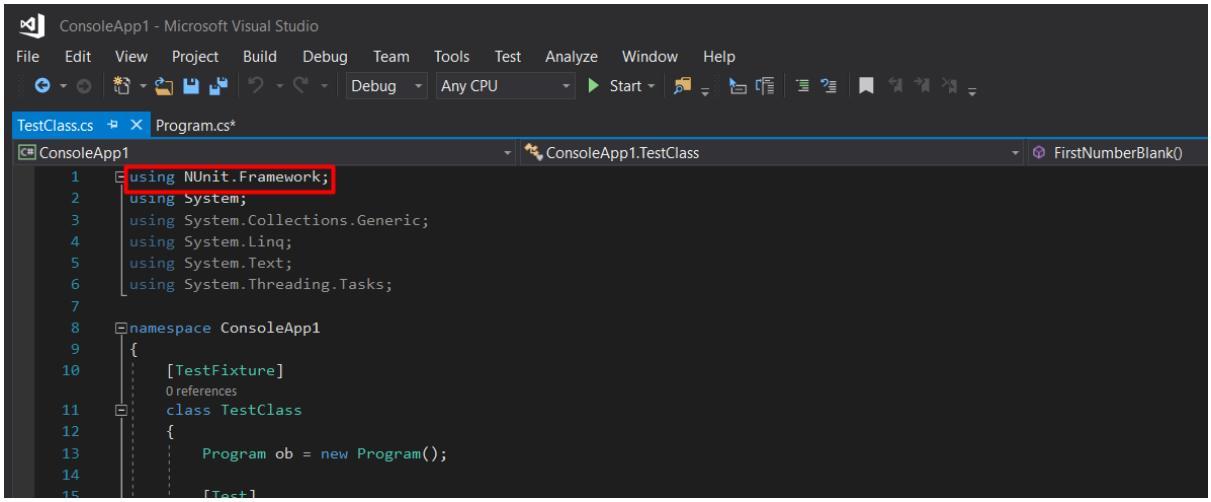
Now right click on your project and click on Add>Class



Create a class and name it to TestClass.cs



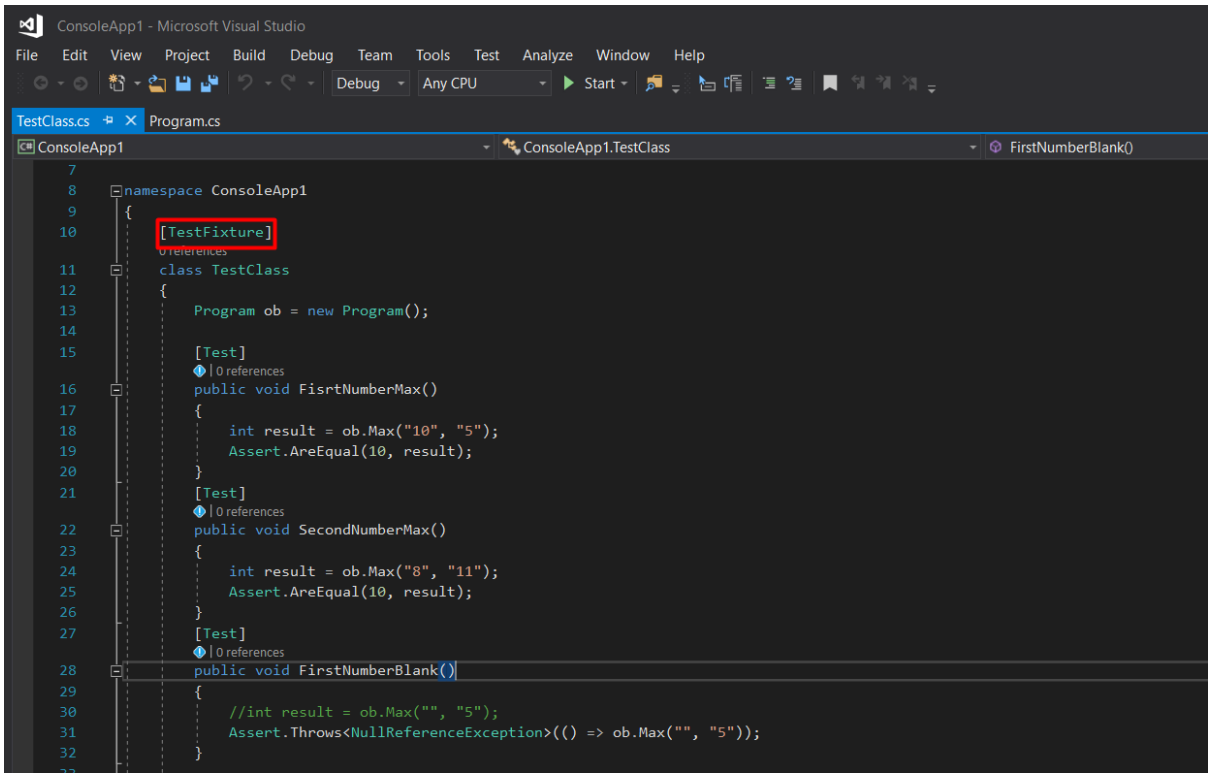
Then add a library> using Nunit.Framework;



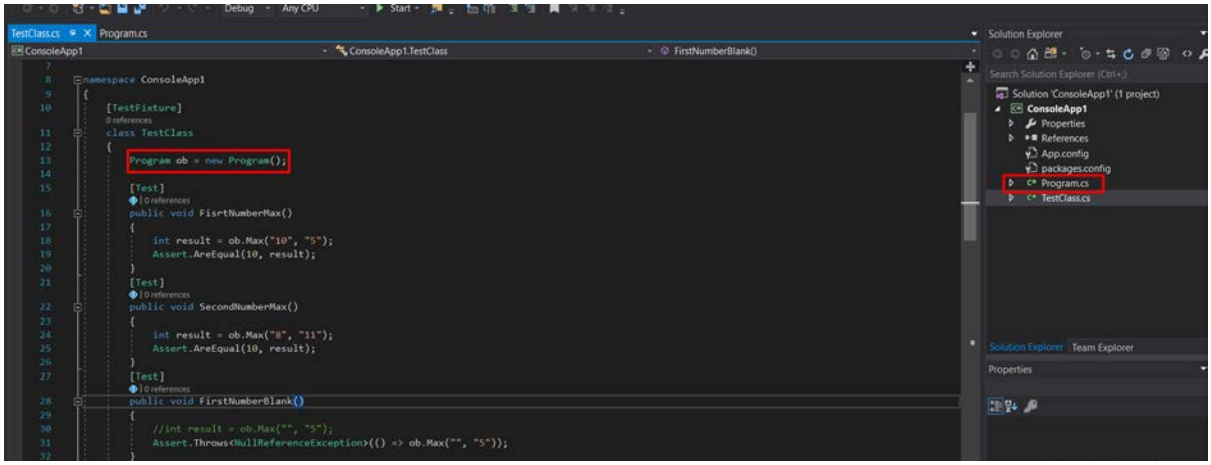
Step_06:

Now we have to write code for test purpose. First, we need to write

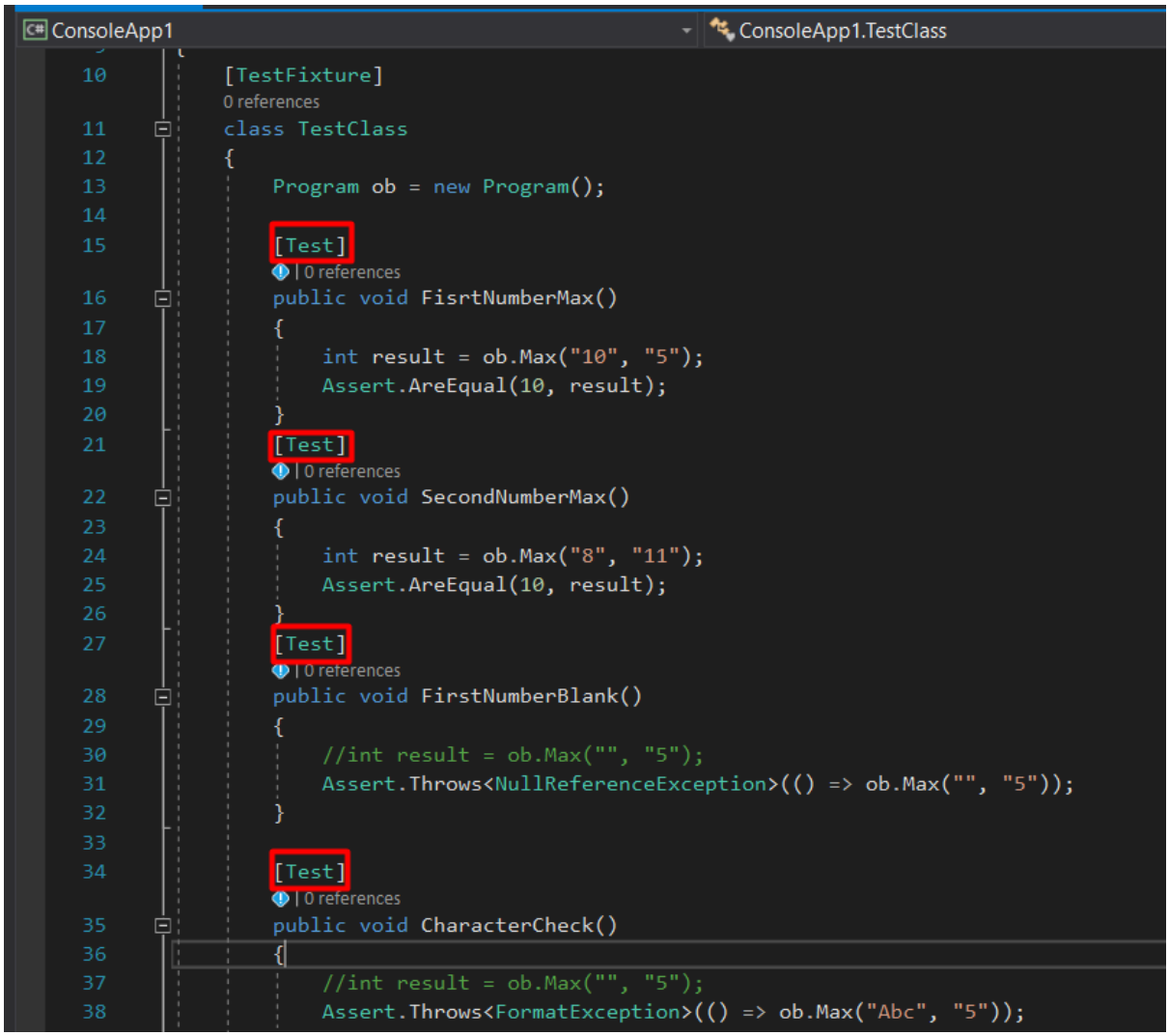
[TestFixture] as in the below picture.



The we have to create an object of our program.



Before writing a test case, we need to write [Test].



There will four test cases for this max function.

- Test Case 1: First Number Max
- Test Case 2: Second Number Max
- Test Case 3: Null Input
- Test Case 4: Non-Number Input

For Test Case 3 & 4, we need to use exception as its unusual case.

For writing Test Case we need some test function. Follow the given link for details view.

- Assertions: http://nunit.org/docs/2.2.6/assertions.html
- Exception: https://airbrake.io/blog/dotnet-exception-handling/exception-class-hierarchy

Full Test Case for our Max Function:

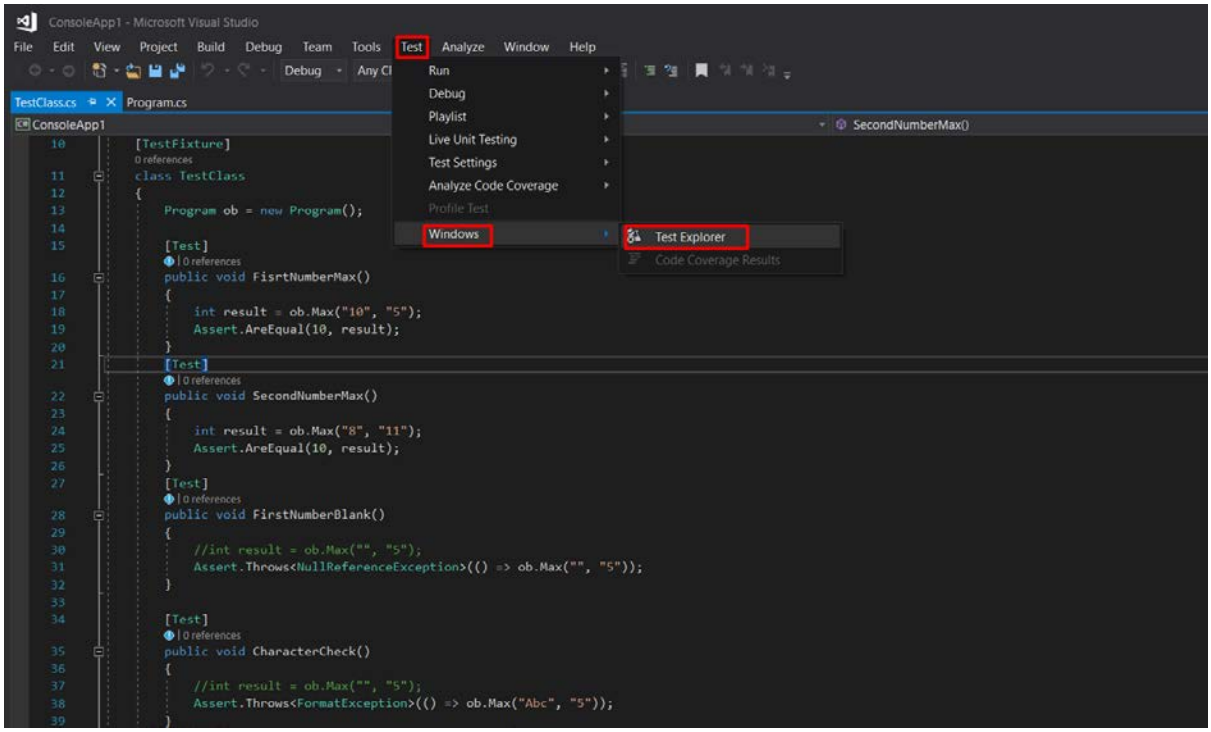
```
[Test]
public void FisrtNumberMax()
{
    int result = ob.Max("10", "5");
    Assert.AreEqual(10, result);
}
[Test]
public void SecondNumberMax()
{
    int result = ob.Max("8", "11");
    Assert.AreEqual(10, result);
}
[Test]
public void FirstNumberBlank()
{
    Assert.Throws<NullReferenceException>(() => ob.Max("", "5"));
}

[Test]
public void CharacterCheck()
{
    Assert.Throws<FormatException>(() => ob.Max("Abc", "5"));
}
```

Step_07:

Now we have to build our project.

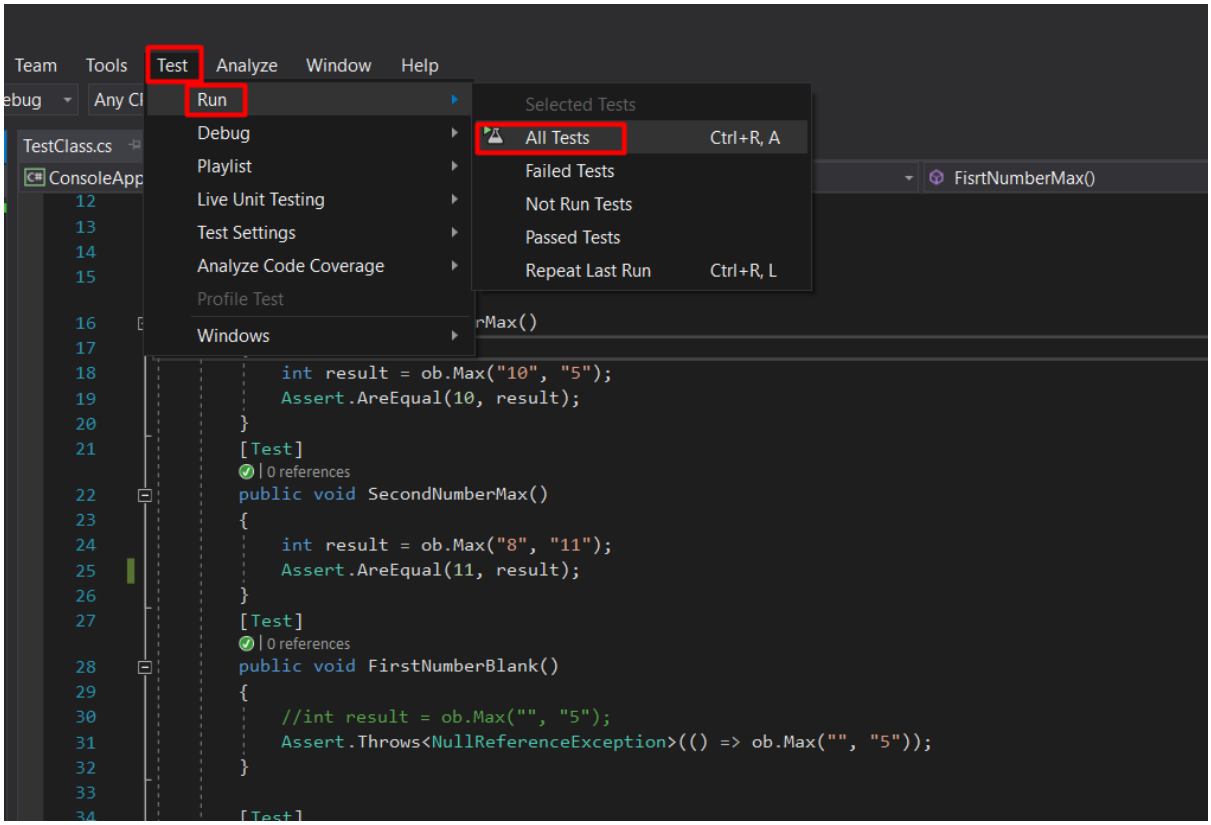
Then we need to open our Test Explorer.

Test>Windows>Test Explorer



Now Hit the Run All Tests.

Test>Run>All Tests



Now you can see how many test cases are passed or not.