Date: 15/09/2022 Lab Session No.: 08

Task 8: Testing visual c# using NUnit.

Aim: To perform Triangle testing visual c# using NUnit.

Procedure:

Steps:

- 1. Creating Class Library.
 - Click on File and select New project
 - Click on Visual C# and give it the name "ClassLibrary1" and click OK
- 2. Add the following code

- 3 Add new class Library
 - Right click on your Project in Solution explorer.
 - Click on Add and New Project and name it "ClassLibrary2" and type the following code
 - Type the following code

```
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using NUnit.Framework;
using Triangle;
namespace classLibrary2
    [TestFixture]
    public class Class1
      {
        [Test]
        public void TestT()
            Triangle t = new Triangle();
            Assert.AreEqual(1, t.isTriangle(5,5,5));
            Assert.AreEqual(3, t.isTriangle(1, 5, 2));
            }//198W1A0529
        [Test]
        public void Tcase1()
            Triangle t = new Triangle();
```

4 Add references

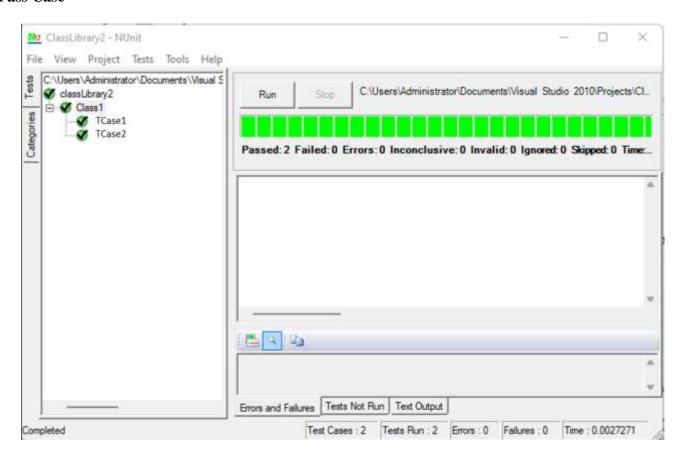
- Right Click on "References" in solution explorer and click on Add references
- Add the Existing Project i.e "ClassLibrary1" and also nunit.framework.dll
- Click on OK

5 Build Solution

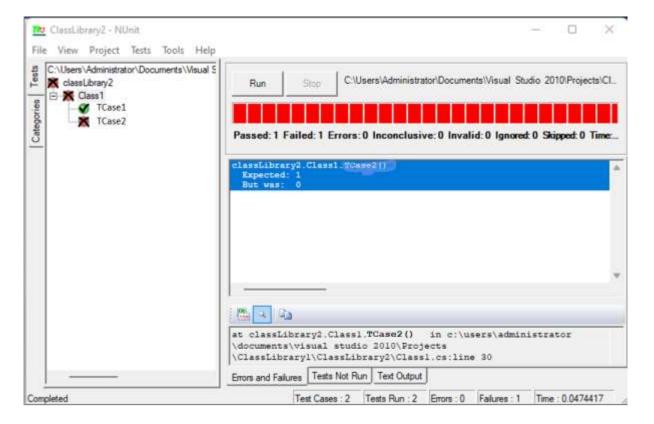
- Go to build tab
- Click on build solution
- Testing using NUnit
 - Open NUnit and click on File
 - Click on Open project and select your existing project ("ClassLibrary1")
 - Select your test code folder ("ClassLibrary2")
 - Click on bin and then on debug and then on testing .dll file ("ClassLibrary.dll") \Visual Studio 2010\Projects\ClassLibrary1\ClassLibrary2\bin\Debug\ClassLibrary2.dll
 - Click on Run

Output:

Pass Case



Fail Case



Test suite design:

Project Name: NUnit Testing									
Test case id: ID_8 Test Designed by: K.Dakshinya									
Test Pr	riority : low		Test Designed Date: 15/09/2022						
Module	e Name : Nunit T	esting	Test Executed by: K.Dakshinya						
Test Title: Blackbox testing Test Executed Date: 15/09/2022									
Description: Test case for problem using NUnit Testing Test Executed Date: 15/09/2022									
Pre-Condition : User should give two input numbers and one expected output									
Stage	Test Steps	Test Data	Expected Result	Actual Result	status (Pass/Fail)	Remarks			
1	Triangle	5,5,5	1	1	Pass	Nil			
2	Triangle	7,7,9	2	3	Fail	Nil			
Post condition: Expected result should match with value returned by function									

<u>Result:</u> Performing checking of Triangle testing visual c# using NUnit has been implemented successfully.

MARKS:	STAFF SIGNATURE:

	Roll No: 198W1A0525 Sec: A	17CS4704B SOFTWARE TESTING METHODOLOGIES LABORATORY	Sheet:
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