**Hands-On: Stage 3 – .NET Advanced Features** ï **NUnit Day 1 - Session-3**

1) Create a UtilLib project in the same solution which is provided and name it as suggested.

2) Rename the class file name (<SUT>Tests.cs).

3) Add the assembly reference of the UtilLib project to the test project.

4) Additionally add the reference of both NUnit and NUnit3TestAdapter in the test project using NuGet Package Manager (NPM).

5) Write the suggested test methods.

6) Run your tests.

7) Break the test by modifying the source project functionality.

8) Rerun the test.

9) Observe the test result

**PROJECT CODE:**

UrlHostNameParser.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace UtilLib

{

public class UrlHostNameParser

{

public string ParseHostName(string url)

{

string protocol = url.Split(':')[0];

if (protocol.Equals("http") || protocol.Equals("https"))

{

string hostName = url.Split(':')[1].Substring(2).Split('/')[0];

return hostName;

}

else

{

throw new FormatException("Url is not in correct format");

}

}

}

}

UnitTest1.cs

using NUnit.Framework;

using UtilLib;

namespace UtilLibTest

{

[TestFixture]

public class SUT

{

[Test]

public void UnitUnderTest\_Scenario\_ExpectedOutcome()

{

UrlHostNameParser urlnp = new UrlHostNameParser();

string result = ulrnp.ParseHostName("https://www.oneplus.com");

Assert.That(result, Is.EqualTo("www.oneplus.com"));

}

}

}

OUTPUT :

