

References

Main Site	https://nunit.org/
Nuget Package	https://www.nuget.org/packages/NUnit/
Run NUnit Tests in Visual Studio	https://www.nuget.org/packages/NUnit3TestAdapter/
Arrange Act Assert Pattern	https://automationpanda.com/2020/07/07/arrange-act-assert-a-pattern-for-writing-good-tests/

Code Example

```
using System;
using NUnit.Framework;
namespace NUnitPoc
{
    [TestFixture, Category("Optional Category Attribute"), Description("Optional Description")]
    public class NUnitPocTests
    {
        // Code run once before all tests
        [OneTimeSetUp]
        public void OneTimeInitialization()
        {
        }

        // Code that is run once after all tests
        [OneTimeTearDown]
        public void OneTimeCleanup()
        {
        }

        // Code that is run once before each test
        [SetUp]
        public void Initialize()
        {
        }

        // Code that is run once after each test
        [TearDown]
        public void Cleanup()
        {
        }

        //Example Test
        [Test]
        public void ExampleTest()
        {
            //Arrange.
            int expected = 1;

            //Act
            int? actual = MethodToTest();

            //Assert
```



Code Example (cont)

```
> Assert.IsTrue(expected == actual, "expected == actual");
//Other example assets
Assert.AreEqual(expected, actual);
Assert.IsFalse(false);
Assert.IsEmpty(string.Empty);
//Assert.Fail("Explicitly Fail");
Assert.Throws<NotImplementedException>(NotImplementedMethod);
}
[Test]
public void ParameterizedTest([Values(1, 2, 3)] int value)
{
    //Do some testing here
    Console.WriteLine(value);
}
private int MethodToTest()
{
    return 1;
}
private void NotImplementedMethod()
{
    throw new NotImplementedException();
}
}
```



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Page 2 of 2.

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