

### References

Main Site	<a href="https://docs.microsoft.com/en-us/visualstudio/test/walkthrough-creating-and-running-unit-tests-for-managed-code?view=vs-2022">https://docs.microsoft.com/en-us/visualstudio/test/walkthrough-creating-and-running-unit-tests-for-managed-code?view=vs-2022</a>
Arrange Act Assert Pattern	<a href="https://automationpanda.com/2020/07/07/arrange-act-assert-a-pattern-for-writing-good-tests/">https://automationpanda.com/2020/07/07/arrange-act-assert-a-pattern-for-writing-good-tests/</a>

### Example Test

```
using System;
using Microsoft.VisualStudio.TestTools.UnitTesting;
namespace MSTestPoc
{
    [TestClass]
    public class MSTestPocTests
    {
        // Code run once before all tests
        [ClassInitialize]
        public static void ClassInit (TestClassContext context)
        {
        }
        // Code that is run once after all tests
        [ClassCleanup]
        public static void ClassCleanup()
        {
        }
        // Code that is run once before each test
        [TestInitialize]
        public void Initialize()
        {
        }
        // Code that is run once after each test
        [TestCleanup]
        public void Cleanup()
        {
        }
        //Example Test
        [TestMethod]
        public void ExampleTest()
        {
            //Arrange.
            int expected = 1;
            //Act
            int? actual = MethodToTest();
            //Assert
            Assert.IsTrue(expected == actual, "expected == actual");
            //Other example assets
            Assert.AreEqual(expected, actual);
            Assert.IsFalse(false);
            //Assert.Fail("Explicitly Fail");
        }
    }
}
```



### Example Test (cont)

```
> Assert.ThrowsException<NotImplementedException>(NotImplementedMethod);
}
[DataRow(1)]
[DataRow(2)]
[DataRow(3)]
[DataTestMethod]
public void ParameterizedTest(int value)
{
    //Do some testing here
    Console.WriteLine(value);
}
private int MethodToTest()
{
    return 1;
}
private void NotImplementedMethod()
{
    throw new NotImplementedException();
}
}
```



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