

### Example Test

```
using Microsoft.VisualStudio.TestTools.UnitTesting;
using ValidationLogic;
namespace UnitTests
{
    //Class Decorator
    [TestClass]
    public class EmailValidationTests
    {
        private EmailValidationLogic _validationLogic;
        //Optional, rarely used. Executes before all tests in the assembly are run
        [AssemblyInitialize]
        public static void AssemblyInit(TestContext context)
        {
        }
        //Optional, rarely used. Runs once before all the tests in this class run
        [ClassInitialize]
        public static void TestFixtureSetup(TestContext context)
        {
        }
        //This code runs before each test
        [TestInitialize]
        public void Setup()
        {
            _validationLogic = new EmailValidationLogic();
        }
        //Optional, rarely used. Runs once after all tests in the assembly are run
        [AssemblyCleanup()]
        public static void AssemblyCleanup()
        {
        }
        //Optional, rarely used. This runs once after all the tests in this class are run
        [ClassCleanup]
        public static void TestFixtureTearDown()
        {
        }
        //This is code runs after each test
        [TestCleanup]
        public void TearDown()
        {
        }
        //Example Test Method
        [TestMethod]
        public void EmailShouldNotHaveMoreThanOneAtSymbol()
```



### Example Test (cont)

```
{
    //Arrange
    bool expected = false;
    //Act
    bool result = _validationLogic.IsEmailValid("jsmith@hotmail.com");
    //Assert
    Assert.AreEqual(expected, result, "Email should not have more than one @");
}
//Test Exception Being Thrown
[TestMethod]
[ExpectedException(typeof(System.DivideByZeroException))]
public void DivideMethodTest()
{
    int x = 1;
    int y = x/0;
}
}
```



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Published 17th March, 2017.  
Last updated 17th March, 2017.  
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