PROG2070 – Quality Assurance: Winter 2018

NUnit Installation and Setup

In this class, we will be using NUnit 3.9.

1) Download NUnit GUI

To install the NUnit GUI, download and install NUnit-Gui-0.6.0.zip from:

https://github.com/NUnitSoftware/nunit-gui/releases

Extract this zip. The GUI is a portable application, it does not need to be installed on the computer. It can be run from the file nunit-gui.exe.

2) Adding NUnit Reference to your Test Project

You will need to add NUnit as a reference to your **Test Project** in Visual Studio. In Visual Studio, choose Tools, NuGet Package Manager, Package Manager Console.

Type in the command:

```
Install-Package NUnit -Project <TEST PROJECT NAME>
```

Where `<TEST PROJECT NAME>` is whatever you have named your current test project. Then press Enter.

3) Adding Reference of your Main Project to your Test Project

In order to access the methods from your main project in your test project, you will need to add a reference. To do so, in the Solution Explorer of Visual Studio, right click References under your Test Project, and choose Add Reference. Choose the "Projects" option on the left, then the "Solution" sub option. You should see your Main Solution listed in the middle window. Place a check mark in the box beside the Main Project's name, and press the OK button at the bottom of the window.

4) Adding a Using Directive for NUnit

In order to access the NUnit types and methods (such as Assert.AreEqual()), you need to add the following line to the list of using directives at the very top of your Test Class:

```
using NUnit.Framework;
```

5) Opening your Test in the NUnit GUI

Before you can run your tests in NUnit, you must build your solution in Visual Studio. The build must complete with no errors. Once you have built it, you are ready to run in the NUnit GUI. Run the nunit-gui.exe executable from the folder you extracted the NUnit GUI to in Step 1 above.

Once the GUI is open, you can open your tests by choosing File, Open. In the Open Project window, you will need to navigate to the location where your project is saved. Open the folder containing your Projects, and you should see a list of folders (at least one for your Main Project, and one for your Test Project). Open the Test Project folder, then open the bin folder, then open the Debug folder, and you will see a list of .dll files. Select the .dll file that corresponds to your Test Class, and press the Open button.