## Assignment 1

CS321 Winter 2023, Professor Christopher Diggins

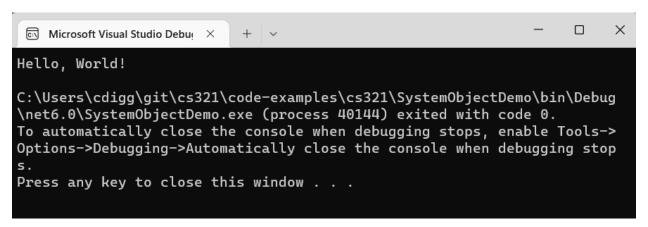
Assigned: Tuesday January 17<sup>th</sup>, 2023

Due: Sunday February 5<sup>th</sup>, 2023

## Part 1

Download and Install Visual Studio Community on your Personal Computer

- 1. Create a Hello World Console Project
- 2. Run it
- 3. Take a screenshot of the output (should like the image below)
- 4. Submit the screenshot as cs321-assg1-part1.png



## Part 2

Write a simple program that lists the contents of a directory (like "dir"). It should take the name of the directory as a command-line argument. It should list the names of all the files first, and then the names of all the directories.

Output should looks something like:

```
Standard Output:
 Files
 Microsoft.TestPlatform.CommunicationUtilities.dll
 Microsoft.TestPlatform.CoreUtilities.dll
 Microsoft.TestPlatform.CrossPlatEngine.dll
 Microsoft.TestPlatform.PlatformAbstractions.dll
 Microsoft.TestPlatform.Utilities.dll
 Microsoft.VisualStudio.CodeCoverage.Shim.dll
 Microsoft.VisualStudio.TestPlatform.Common.dll
 Microsoft. Visual Studio. TestPlatform. Object Model. dll
 Newtonsoft.Json.dll
 NuGet.Frameworks.dll
 nunit.engine.api.dll
 nunit.engine.core.dll
 nunit.engine.dll
 nunit.framework.dll
 NUnit3.TestAdapter.dll
 NUnit3.TestAdapter.pdb
 nunit_random_seed.tmp
 StringDemo.deps.json
 StringDemo.dll
 StringDemo.pdb
 StringDemo.runtimeconfig.json
 testcentric.engine.metadata.dll
 testhost.dll
 testhost.exe
 Directories
CS
 de
 es
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 pt-BR
```

- 1. Submit the following work in a single text file: cs321-assg1-part2-plan.txt
  - a. A list of hypothetical functions that you think you will need
  - b. Some high-level pseudo-code (reasonable attempt)
  - c. A list of actual C# functions you find online that you think might help you
- 2. Write a working C# program using .NET Framework 6.0. Submit the main source file as "Assg1Part2Program.cs" and submit the project file as "Cs321Assg1Part2.csproj".
- 3. Demonstrate it working and submit a screenshot: cs321-assg1-part2.png.

## **Grading Criteria**

- 1. Part 1:
  - a. Screenshot: 2 Point
- 2. Part 2:
  - a. Plan:
    - i. List of hypothetical functions: 1 Point
    - ii. Pseudo-code: 1 Point
    - iii. List of C# functions that might help: 1 Point
  - b. Actual code:
    - i. Understandable and with comments: 1 Points
    - ii. Valid C# 10 and .NET 6 code: 1 Point
    - iii. Uses at least one function other than main: 1 Point
  - c. Project:
    - i. Compiles, Runs, and works on my test directory: 1 Point
  - d. Screenshot: 1 Point
  - e. Bonus:
    - i. Outputs sizes and dates of files: 1 Bonus Point
- 3. Total: 10 Points + 1 Bonus Points