# **Assignment 1: Getting Started**

Jacob Jeffers

MSCS 532

Dr. Vanessa Cooper

Fall 2024

10/27/2024

Assignment 1: Getting Started

Step 1: Install Python

For this step, I navigated to python.org/downloads and downloaded Python 3.13. On the installer, I checked the box for “Add Python to PATH.” Python has been successfully downloaded on the device.

A computer screen with white text

Description automatically generated

Step 2: Install VS Code

For this step, I deleted a previous version of VS Code and downloaded the most recent version by navigating to code.visualstudio.com. Once there, it downloaded automatically, and when the download was completed, I followed the installation steps to install it on my machine. The installation was successful.

A screenshot of a computer

Description automatically generated

Installing Python from there involved searching through the extensions library and installing Python.

A screenshot of a computer

Description automatically generated

Code Runner was also installed per your recommendation. Thank you for sharing that! 😊

A screenshot of a computer

Description automatically generated

Step 3: GitHub Account Creation

For this step, I have a GitHub created already using my UC email address.

A screenshot of a login screen

Description automatically generated

To set up GitHub with VS Code, I followed your recommended YouTube, and it looks like it has been successfully set up.

A black background with red lights

Description automatically generated

Step 4: Assignment

To begin the assignment, I opened our text to Chapter 2 to review the Insertion Sort algorithm. The algorithm itself makes sense; it takes a matrix of numbers and sorts them in some specified order; however, coding it was the biggest challenge. I am not much of a programmer, admittedly, and I had to seek out help from GeeksforGeeks (2023). With some practice, I was able to create three different algorithms with the last being the monotonically decreasing order. All of those have been published on the GitHub repository located here: <https://github.com/jakejeffers/MSCE532_Assignment-1>.

A screenshot of a computer program

Description automatically generated

References

GeeksforGeeks. (2023, August 28). *Python program for insertion sort*. GeeksforGeeks. https://www.geeksforgeeks.org/python-program-for-insertion-sort/