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Final Learning Note

Learnings from the Class

The Foundations of Programming: Python taught me about programming in Python in two aspects. One aspect is to write the algorithm in Python which includes the use of IDE, programming structure, constants and variable declaration, syntax, libraries, decoration, data structures, and modulation. The other aspect is the professionalism of working with Python from an industry point of view. The guidance on best practices, what and how the written statements are perceived in the industry, the new and old practices of programming in Python, and details of their importance. Such as naming conventions of constants, variables, and functions using capitalization is considered bad/rude in the programming community. Similarly, what to name a variable or function is that it is meaningful. Moreover, it taught the required discipline for programming in Python.

I want to talk about the importance of commenting and declaring the changelog in each file/function. This part is critical because when we work on complex and long applications in a big team of programmers, this becomes of utmost importance to write these small descriptions of the intent of that specific script and what it does.

Also, I learned a whole lot about reporting the application created in Python. The assignment reports played a very important role in teaching me the intuition of what I programmed. It is because while writing the program, one is lost in the zone of logical thinking to implement something in a local setting of the application. However, when you write a report on the application, you think about the chronological order of the details of the application and what the application does. The sections of the report – creating the program, processing, presenting, and testing – help to pen down the thinking process that was used while writing the application.

I learned so many good practices that I did not think about or even was exposed to when I learned C and C++ in my undergrad. This class was very refreshing for me in this regard. I hope it will help me tangibly in my career.