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IT FDN 110 B Winter 2022: Foundations of Programming

Assignment09 Knowledge Document

Lesson learned in finishing assignment09

Introduction

Brief overview of some lessons learned through some experience I earned through finishing assignemtn09.

Experience gained 1:

In this project I created multiple classes in separated python file (module) to better organize the code. When I need the classes created in other python files, I need to import the module at the beginning of the python file to claim the module. I can also set an alias for the module I imported and use the alias to represent the module for the rest of the code.

Experience gained 2:

Created multiple classes in separated python file is also good for cooperation. Say in the company, many people may need to contribute to the same project, people can divide the ownership and create multiple python file for different classes so that they can parallel working on their own code. Finally, they can create a "main" module that import all the module needed and realize what they plan to do.

Experience gained 3:

This project also provides a python file for testing code. Creating tests is a good habit, because every time we change code in the future, we can run the test file to make sure all the test passed and confirmed changed code does not unexpectedly impact other functions.

GitHub link:

yuguanp/assignment09 (github.com)

Summary

This project is more complicated than the projects before. I need to read each of the python file and understand the expected functions and realize the function one by one. I also need to understand the relationship between track and CD so that I can load and save multiple files accordingly. This project is more like a project in real life instead of a simple program homework.

Appendix

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Fig.1 Screenshot of script successfully running in Spyder

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Fig.2 Screenshot of script successfully running in terminal window