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<Foundations of Programming (Python)>

<Assignment 09>

To complete the TODOs in all supporting files(IO,Dataclass, DataProcessing)and call the Classes with importing them as modules into the main file CD_inventory

Introduction

Brief overview about this module is I learnt in detail about importing modules (consist of classes and functions). I also learnt about the __name__ which gives the name of the module if its main from where its run. I also learnt we can import module with alias name. Here an interesting thing is we can reference the classes inside the imported modules with a dot and run the programming as a small code snippet with this import function.
I also learnt about the Test Harness, like testing your code as you complete one module with testing it functions inputting some test cases and values.

Aim of Assignment

The aim of this assignment is to complete the list of TODOs, and it a CD list in which a CD can have some tracks.The tracks with balnks are filled with None. Each CD item can have 0 to many tracks. One can remove tracks or add tracks, display tracks. For CDs one can save CDs, Tracks , add new CDs, display CDs, load Cds from file and exit. There is new Choice option as to which Cd you want to add tracks for for the user to know. Here the CD ID and position of the tracks are ints and other inputs are strings.

GIST:

The Test Harness as provided was my reference for the TODO completion. I also used aid from the LAB09 B snippet to understand from the Module09 learnings. Here the CD_inventory was the main module to execute the program.

Script:

I have included script on Github and on canvas as it has many files. I have deleted the __pycache folder from my Assignemnt09 folder.

Summary

I have started with OOP concepts, class, and its usage. Using dunder function like __name__ and import, usage of test_harness were new topics.

I have uploaded the Gitlab code : https://github.com/sayalisu/Assignment_091