Armando Gomez

2021-Dec-07

Foundations of Programming (Python)

Assignment08

Knowledge Document

# Introduction

First I loaded the Assignment07 CDInventory.py and kept it open for reference, I also opened the Assignment\_08\_Starter.py file and renamed it and put it in the new Assignment08 folder as CDInventory.py, for the code see Appendix. I also updated docstrings and added my involvement in the header. Four basic parts to this assignment. Part 1, Add code to the CD Class. Part 2, Add code to process data from/to a file. Part 3, Add code to IO Class. Part 4, Add Code to the main body.

# Part 1, Add code to the CD Class

The CD class was very straight forward, we were given already the properties (which make up the a new CD line) these properties I imagined would come in the dunder init method so I defined those as attributes. As properties returning the value (I suppose at this point I could have checked if the ID was an integer or not) but anyway, using the setter I assigned that property the value passed. The methods just construct the format as a returned value of those “functions”.

# Part 2, Add code to process data from/to a file

The FileIO class was also very straight forward, we were already given the two methods. For save\_inventory(file\_name, lst\_Inventory) we’re passing as arguments the name and table (list) of the objects and writing them into the file by calling the CD class and cdinfoline method. For load\_inventory(file\_name) we just read the file into a table and return the table. I suppose these could have been read as objects, but not sure.

# Part 3, Add code to IO Class

Here I just copied and pasted the methods previously created and submitted under Assignment07/CD\_Inventory.py however the only thing that changed was that we’re not giving the user the option to delete an item from inventory. Also for the new\_CD() method we’re returning an instance of the CD class as an object with properties.

# Part 4, Add Code to the main body

Here I also just copied and pasted the main while loop from the previously created and submitted under Assignment07/CD\_Inventory.py however deleted the code to allow the user to delete an item from inventory. The trickiest part was to add the data, I knew the list had to be appended with a new\_CD object from the IO class and it worked.

# Summary

The most confusing part is keeping track that you’re instantiating a new object using a class appending that to a list and then showing (or writing) that list to the file by passing that (list) as a new object of another class. I think I just need more examples and more practice with this new concept.

# Appendix

<https://github.com/exterminar/Assignment_08>

# Figures

A screenshot of a computer

Description automatically generated with medium confidence

Figure , Screenshot of my script running in Spyder working on my computer

Text

Description automatically generated

Figure , Screenshot of my script running in Terminal working on my computer