James Byrne

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Foundations of Programming (Python)

Assignment 06: https://github.com/Bizzyrne/Assignment\_06.git

Assignment 06

# Introduction

I will be modifying code provided by Dirk to create a short program that will help the user take inventory of some CDs with the following information – CD ID number, CD title, and artist name. The program will start with a menu that gives the user six options:

1 - Load inventory from file

2 – Add CD

3 – Display Current Inventory

4 – Delete CD from Inventory

5 - Save Inventory to File

6 - Exit

# Topic 1

**To create this program, I will be using anaconda’s spyder. My task for this assignment is to address all of the “TODO” items in the starter code. This would involve the following:**

1. **Create a write file function in FileProcessor class that would write the current CD list in memory to file “CDInventory.txt”**
2. **Create “add to table” function in DataProcessor class that would add CD data as a dictionary to the current CD list in memory.**
3. **Create “delete from table” function in DataProcessor class that would delete a CD data dictionary from the current CD list in memory.**
4. **Create “new CD data” function in IO class that would gather CD data from the user and return it as a dictionary.**
5. **Remove code from the main loop that used to perform these operations listed above**

**In addition to this, I also added several try/except statements in the code to manage errors. As an example, when the main program body calls to read in the current saved list from file and there is no file, an error is generated. I added a try/except statement to handle this and return “No Saved Data” when there is no existing “CDInventory.txt” file.**

**Description of how I performed this work:**

**I tried to work with one functionality at a time. I removed the code in the main body of the script performing the task and then wrote the new code in a function in the appropriate class. I would then trouble shoot the function before moving on to the next function. When the function was finally working, I documented the function with a doc string. This method allowed me to isolate problems to the function I was working on, rather than updating all of the functions and main body code and then trying to trouble shoot.**

**After successfully running through each task on the list, I tried each aspect of the code. Since there is a lot of functions, I decided to not take screen shots of this. It seemed like this wasn’t a requirement in the assignment\_06 doc, so hopefully I am correct.**

# Summary

This assignment focused on functions and updating other people’s code. This was the most challenging assignment by far, since there was a lot that needed updating.

# Appendix

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