Assignment 09

# GitHub

https://github.com/holmesak95/Assignment09

# Introduction

This is my process through Assignment 09 for the Foundations of Programming (Python) course. This assignment involves splitting functionality between classes, and more objects.

# Assignment 09 Process

I copied the base scripts that Dirk created. I also added some of my logic from previous classes to avoid re-inventing the wheel (like my ValidationClass, etc.). I also kept some of the functions like last week’s assignment: print\_menu(), menu\_choice, show\_inventory(), add\_inventory(), and delete\_cd() functions. I made small tweaks to them when necessary (for example I made sure to use CD objects in the add\_inventory() and included logic for Tracks).

The major changes creating the Track class, the sub-menu for this, and the loading and saving of the data. I created the constructor for the Track class, and tried adding in error handling for if the 2 files (AlbumInventory.txt and TrackInventory.txt) weren’t found. I wanted to add in customization to this error handling by raising an exception if one of the files wasn’t there while the other was, and allowing the user to create it, but I was having trouble figuring out the logic on how to raise the exception for a specific file without affecting the other file.

# Assignment 09 Results

Below are screenshots of the results when running the script through both Spyder and the terminal.

Text

Description automatically generated

Figure : Results of the script when run through Spyder

# Text Description automatically generated

Figure 2: Results of the script when run through the Terminal

# Summary

In this assignment, I learned about various concepts like objects and classes. The assignment went well; I used code similar to my last assignment for some of the minor functionality so hopefully that was okay. Besides the structured error handling if one vs. both of the files weren’t found, another obstacle I encountered was making sure to use the same data types and field naming mentioned in the headers of each method. For example, if I was creating these scripts without Dirk’s foundations, I may not have stored the Track fields (position, title, and length) within a tuple. There are other lines of code that made a lot more sense than what I originally did last assignment, such as the string formats Dirk showed in class.

**Note:** formatting of Python code throughout this document is done using [saravjishut](https://saravjishut.org/syntax) syntax highlighter [external reference]