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< IT FDN 100 >

< Assignment 08 >

Document my knowledge

# Introduction

For the 8th assignment, the task is to modify a starter script to use classes, objects, constructors, etc.

This week we learned the components that make up a class. Here are some definitions in my own words.

Attributes: are assignment statements that assigns a value to a variable outside of a method.

Static method: is a decorator, it does not need “self” or other arguments (parameter).

Private attributes: these are used to limit direct access to object from the user. It has double underscores. You can also create private methods.

# Steps to Complete the Assignment

To complete the assignment, I watched the recommended YouTube videos and read chapter 8 of the book. Then I followed all the steps in the assignment document.

The first thing I did was to figure it out what needs to be done by looking at the pseudocode.

By looking at the pseudocode, I started to fill out the blanks using codes from the previous week. I moved the main body and class IO. I then updated all the docstring. I noticed that the list of objects is defined as lstofCDObjects in the beginning so I updated all of my varibles to be consistant. I also modified the read\_file and write\_file functions to save\_inventory and load inventory methods.

Last but not least, I added class CD. First, I added the constructor: the dunder init method, this is implicitly called by python when creating an object and passes arguments provided. Then I added property and setters to define the data types.

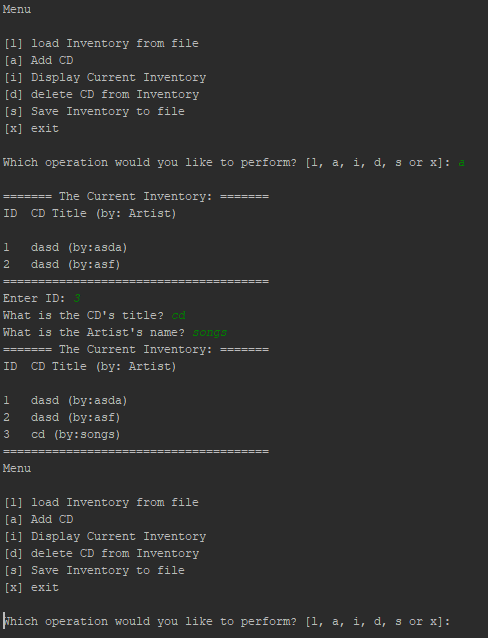


Figure 1Pycharm Screenshot showing adding works

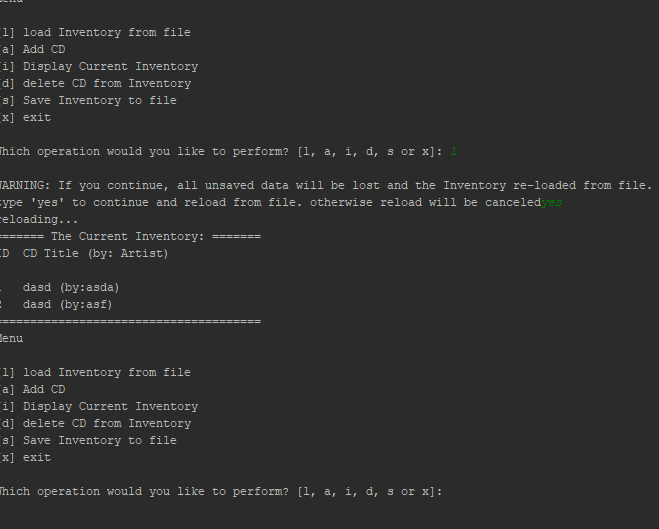


Figure S Pycharm screenshot showing loading function works

# Summary

Module 08 was definitely more challenging. A lot of the concepts take time to grasp.

# References

<https://docs.python.org/3/tutorial/errors.html> for step 3 research exception handling in Python

<https://www.programiz.com/python-programming/exception-handling> for step 3 research exception handling in Python

<https://docs.python.org/3/library/pickle.html> for step 4 research pickle in Python

<https://www.geeksforgeeks.org/understanding-python-pickling-example/> for step 4 research pickle in Python

The pages I found were pretty good at explaining of exception handling because it’s straightforward and easy to understand. The pages come with examples and screenshots.

# Appendix

Github link: https://github.com/tianxie812/Assignment\_07