

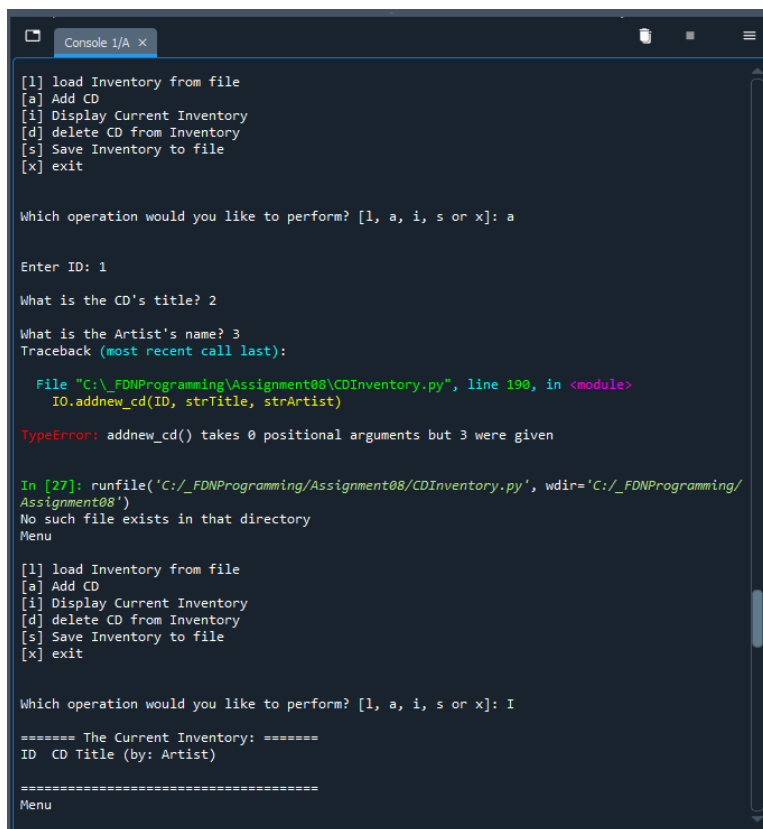
## Assignment 8

### Introduction

Assignment 8 is an extension of our CD inventory script. We are provided the entire assignment in pseudocode in a starter script, and we modify the script based on the instructions. The pseudocode contained 9 “TODO’s” including writing docstrings and code for several class methods under the classes “CD,” “FileIO,” and “IO.” Much of the class IO, and the main body of the script seemed to me to be able to be reused from Assignment 7 so that is what I did. I had to update certain text however due to the slightly different class structure and file names in Assignment 8. Also, there is no ‘delete’ information option in the Assignment pseudocode so that goes away entirely. Lastly, we add some structured error handling, similar to Assignment 7.

I kept getting a “file\_name” undefined message and so added it as an empty string at the top of the script and that seems to have solved the issue. However, like Assignment 7, my code still does not work correctly. When I run the program, the menu prints. However I get errors when trying to load or add information. When I try to load I get an error “‘CD’ object has no attribute ‘values’.” When I try to add CD data I can enter track ID, title, and artist, but then I get an error “addnew\_cd() takes 0 positional arguments but 3 were given.” I don’t understand because I thought addnew\_cd does take 3 arguments.

Below is a screenshot of the program running in Spyder.



```

[1] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit

Which operation would you like to perform? [l, a, i, s or x]: a

Enter ID: 1
What is the CD's title? 2
What is the Artist's name? 3
Traceback (most recent call last):
  File "C:\_FDNProgramming\Assignment08\CDInventory.py", line 190, in <module>
    IO.addnew_cd(ID, strTitle, strArtist)
TypeError: addnew_cd() takes 0 positional arguments but 3 were given

In [27]: runfile('C:/_FDNProgramming/Assignment08/CDInventory.py', wdir='C:/_FDNProgramming/Assignment08')
No such file exists in that directory
Menu

[1] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit

Which operation would you like to perform? [l, a, i, s or x]: l

===== The Current Inventory: =====
ID  CD Title (by: Artist)
=====
Menu

```

Figure 1. Program running in Spyder.

And below is a screenshot of the program running in Anaconda prompt:

```
Anaconda Prompt (Anaconda3)

(base) C:\Users\gleque>cd C:\_FDNProgramming
'cd' is not recognized as an internal or external command,
operable program or batch file.

(base) C:\Users\gleque>chdir C:\_FDNProgramming

(base) C:\_FDNProgramming>chdir C:\_FDNProgramming\Assignment08

(base) C:\_FDNProgramming\Assignment08>python CDInventory.py
No such file exists in that directory
Menu

[l] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit

Which operation would you like to perform? [l, a, i, s or x]: i

===== The Current Inventory: =====
ID      CD Title (by: Artist)
=====
Menu

[l] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit

Which operation would you like to perform? [l, a, i, s or x]: a

Enter ID: 1
What is the CD's title? test
What is the Artist's name? test
Traceback (most recent call last):
  File "C:\_FDNProgramming\Assignment08\CDInventory.py", line 190, in <module>
    IO.addnew_cd(ID, strTitle, strArtist)
  File "C:\_FDNProgramming\Assignment08\CDInventory.py", line 190, in <module>
    IO.addnew_cd(ID, strTitle, strArtist)
TypeError: addnew_cd() takes 0 positional arguments but 3 were given

(base) C:\_FDNProgramming\Assignment08>
```

Figure 2. Program running in Anaconda prompt.

## GitHub

For this assignment we are required to upload our python file and this knowledge document to GitHub. The link for my assignment is:

<https://github.com/rolflekve/Assignment08>

## Summary

The assignments continue to challenge. My code is not working correctly. In this assignment I did my best to add code based on the pseudocode instructions including adding doc strings and code under the classes and the main body of the script. Some fixes are needed for the code to work, however.

## Appendix

Below are web searches I used for this assignment.

- Python @staticmethod vs @property
- Python object oriented programming
- Python object has no attribute 'values'
- USMNT vs. Netherlands
- Python takes 0 positional arguments but 3 were given