

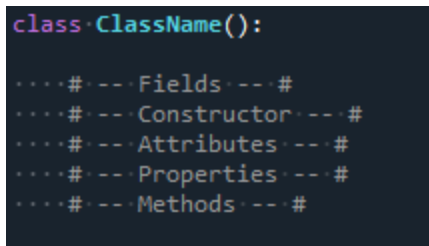
CD Inventory Round 5

Intro

This week we jumped into Object Oriented Programming also known as OOP¹. The assignment is our fifth iteration of our CD Inventory program while utilizing OOP.

OOP

Object Oriented Programming has been difficult for me to fully grasp. I still don't feel confident in my understanding of it. Going through the labs we looked at the standard components that make a class which are Fields², Constructors³, Attributes⁴, Properties⁵ and Methods⁶. Please see Figure 1 showing the order of the components.



```
class ClassName():  
    ....#-- Fields--#  
    ....#-- Constructor--#  
    ....#-- Attributes--#  
    ....#-- Properties--#  
    ....#-- Methods--#
```

Figure 1 - Standard components of a Class

It wasn't until class on tuesday when we were going over the labs that I realized that I had previously done the labs incorrectly. After class I re-read through the module document, re-watched Dirks videos and reached out to developer friends that work with PHP, HTML and Javascript in an attempt to gain a further understanding, but i'm still vastly confused when it comes to OOP.

¹ FDN_Py_Module_08.pdf page 1

² FDN_Py_Module_08.pdf page 3

³ FDN_Py_Module_08.pdf page 3

⁴ FDN_Py_Module_08.pdf page 5

⁵ FDN_Py_Module_08.pdf page 6

⁶ FDN_Py_Module_08.pdf page 10

Assignment

This is our fifth iteration of the CD Inventory program. This has been a constant state of frustration with the cliché of one step forward and two steps backward. After spending roughly 7-9 hours on the assignment I had narrowed my issues to the load and save functionality. It took an additional 2 hours before I would learn what a values statement was and how it was the pivotal piece of information needed for the load and save to function. Please see Figure 2 for the value statement.

```
def values(self):  
    return [self.cd_id, self.cd_title, self.cd_artist]
```

Figure 2 - THE VALUE STATEMENT

Summary

During our week seven class we were briefed that module eight would probably be the hardest concept to fully understand. Even though I was able to write a program that processes as accepted I am not confident in my understanding of OOP. Also this is the last knowledge document for this class and I couldn't be more excited.

Appendix

Full program available on GitHub

Spyder Screenshots:

```
In [1]: runfile('C:/_Programming/Mod_08/Assignment08/CDInventory.py', wdir='C:/_Programming/Mod_08/  
Assignment08')  
Menu  
  
[l] Load Inventory from file  
[a] Add CD  
[i] Display 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)  
  
1       sam (by:sam)  
2       man (by:man)  
=====
```

Menu

[l] Load Inventory from file
[a] Add CD
[i] Display Inventory
[s] Save Inventory to file
[x] exit

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

Enter an ID: 3

Enter the CD's Title: bat

Enter the Artist's Name: bat

===== The Current Inventory: =====

ID CD Title (by: Artist)

1 sam (by:sam)

2 man (by:man)

3 bat (by:bat)

=====

Menu

[l] Load Inventory from file
[a] Add CD
[i] Display Inventory
[s] Save Inventory to file
[x] exit

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

===== The Current Inventory: =====

ID CD Title (by: Artist)

1 sam (by:sam)

2 man (by:man)

3 bat (by:bat)

=====

Save this inventory to file? [y/n] y

Menu

Menu

[l] Load Inventory from file
[a] Add CD
[i] Display Inventory
[s] Save Inventory to file
[x] exit

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

In [2]: |