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IT FDN 110 B AU 22

Assignment 08

Object Oriented Programming (OOP)

Introduction

This week we modified CDInventory.py script with concepts related to Object Oriented Programming. The goal is to create classes to define objects, write methods and create attributes for objects, instantiated objects and restricted access to an object's attributes, while retaining the same output of the script.

Steps

After adding a constructor, with "self" as its first parameter, attributes were defined for fields (ID, title, and artist) also, dicRow. Doc string was updated to reflect the modified code.

CD was implemented into the code of CD_inventory.py without an independent function. add_inventory_menu function was updated, to be able to pull objects from the CD class. Establishing to appropriate constructor was most challenging, to get properties and methods to run together correctly. It's been helpful reminding myself that there is a benefit to name things to make them easier to verify the purposes. Especially in spots from the script where the coding interplay is predicated on retrieving the user input, then create an instance of a CD object.

```
In [1]: runfile('/Users/chriswatt/PYTHON_CLASS/Mod_08/Assignment08/CDInventory.py')
Menu

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

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

Enter ID: 5
What is the CD's title? Victor
What is the Artist's name? Franken
======= The Current Inventory: =======Which operation would you like to perform? [l, a, i, s or x]:
ID   CD Title (by: Artist)

1111 Rancid (by:Out Come)
2    Bad Religion (by:Stranger)
3    Forget (by:Twin Shadow)
5    Victor (by:Franken)
==================================
Menu

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

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

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

1111 Rancid (by:Out Come)
2    Bad Religion (by:Stranger)
3    Forget (by:Twin Shadow)
5    Victor (by:Franken)
==================================
Save this inventory to file? [y/n] i
The inventory was NOT saved to file. Press [ENTER] to return to the menu.y
Menu

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

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

Figure 1 – 08_Spyder

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

Enter ID: 3
What is the CD's title? Forget
What is the Artist's name? Twin Shadow
======= The Current Inventory: =======
ID      CD Title (by: Artist)

1       Rancid (by:Out Come)
2       Bad Religion (by:Stranger)
3       Forget (by:Twin Shadow)
====================================
Menu

[l] load Inventory from file
[a] Add CD
[i] Display Current 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       Rancid (by:Out Come)
2       Bad Religion (by:Stranger)
3       Forget (by:Twin Shadow)
====================================
Save this inventory to file? [y/n] l
The inventory was NOT saved to file. Press [ENTER] to return to the menu.y
Menu

[l] load Inventory from file
[a] Add CD
[i] Display Current 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       Rancid (by:Out Come)
2       Bad Religion (by:Stranger)
3       Forget (by:Twin Shadow)
====================================
Menu
```

Figure 2 - 08_Terminal

GitHub

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