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IT FDN 110 B

Assignment 05

Introduction

- This is the fifth assignment for the Foundations of Programming: Python course. In this assignment, we reused code from Assignment 04 and created a new function for users to load an inventory from file, as well as deleting an inventory.

Assignment 05

- The labs in Module 05 were very similar to the code needed in the actual assignment, so the assignment itself was not actually too difficult. Deleting was the easier one of the two functions needed for me, even though the labs walked me through the steps of loading a file.

Screenshot(s) of project ran in spyder:

The screenshot shows the Spyder IDE interface. The left pane displays a Python script named `cdinventory_start.py`. The script implements a CD inventory system with the following functionality:

- Choice 1:** Add a new CD to the inventory. It prompts for the CD's title, artist, and ID, then appends this information to a text file named `CDInventory.txt`.
- Choice 2:** Display the current inventory. It reads the data from `CDInventory.txt` and prints it to the console.
- Choice 3:** Delete a CD from the inventory. It prompts for the index of the CD to be deleted and removes it from the inventory file.
- Choice 4:** Save the data to a text file (already done in Choice 1).
- Choice 5:** Exit the program.

The right pane shows the console output, which matches the script's execution:

```
Enter the CD's Title: title2
Enter the Artist's Name: artist2
[1] load Inventory from file
[a] add CD
[1] Display Current Inventory
[d] delete CD from Inventory
[s] save Inventory to file
[x] exit

1, a, i, d, s or x: i
ID, CD Title, Artist
1, title1, artist1
2, title2, artist2

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

1, a, i, d, s or x: d

Enter the index of the CD you want to delete, starting at 0: 1
CD 2 deleted from inventory

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

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

1, a, i, d, s or x: x

In [28]: |
```

The status bar at the bottom indicates the Python interpreter is ready and the file encoding is UTF-8.

Screenshots on next page

Screenshot of project ran in Terminal/Command Prompt

```
Enter an ID: 1
Enter the CD's Title: title1
Enter the Artist's Name: artist1
[l] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit
l, a, i, d, s or x: a

Enter an ID: 2
Enter the CD's Title: title2
Enter the Artist's Name: artist2
[l] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit
l, a, i, d, s or x: i

ID, CD Title, Artist
1, title1, artist1
2, title2, artist2

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

Enter the index of the CD you want to delete, starting at 0: 1

CD 2 deleted from inventory

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

inventory saved to file
[l] load Inventory from file
[a] Add CD
[i] Display Current Inventory
[d] delete CD from Inventory
[s] Save Inventory to file
[x] exit
l, a, i, d, s or x:
```