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Course - IT FDN 110 B Au 21: Foundations Of Programming: Python

Assignment - Assignment05

Introduction:

In this module we learned about working with strings, lists and dictionaries. It is interesting to see how data is stored in dictionaries with labels and can be read /deleted back using label values.

I had multiple issues writing this program and identifying how dictionaries work with 2D tables. I had to look up multiple articles and videos to be able to understand how to write into a file using dictionaries and read the data back into memory.

Once it worked, it was an achievement to be able to get the program to run and function correctly :-).

Running the script and capturing output using Spyder-

Adding CD -

```
In [174]: runfile('C:/python/Mod_05/Assignment05/CDInventory.py', wdir='C:/python/Mod_05/Assignment05')
The Magic CD 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: a

Enter an ID: 1

Enter the CD's Title: a

Enter the Artist's Name: b
```

Display Current Inventory -

```
Enter the Artist's Name: b
[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, a, b
```

Save Inventory 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: s
```

```
1,a,b
```



CDInventory - Notepad

File Edit Format View Help

1,a,b

Running the script and capturing output using Python terminal-

```
(base) C:\Users\athakran>python c:\python\Mod_05\Assignment05\CDInventory.py
The Magic CD Inventory

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

Enter an ID: 2
Enter the CD's Title: d
Enter the Artist's Name: e
```

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

2,d,e
```

Summary - I was able to successfully modify a program to enter CD Inventory details in a 2D Table using dictionaries. . I was able append data to a dictionary, delete data using an index, display them on the screen and write them to a file named CDInventory.txt. I was able to locate the file. Screenshots are attached above. I was also able to run the file on the Python terminal.