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IT FDN Programming 110

FDN Programming 110 Assignment 05

# Introduction

In Assignment05 we were asked to write a python script similar to Assignment 04 but with an additional menu option to delete CD Inventory data. The inner dimension the List in the previous assignment was replaced by dictionaries for assignment 05.

# Comments:

Creating and processing the menu item to delete a CD Inventory row took the most time. I had to re-read Chapter 5 and review the lecture material several times to determine how to search for a value in a dictionary.

# Writing the script:

The menu processing logic was straightforward. What is challenging for me at this point in the course is getting the syntax correct for strings, Lists and Dictionaries. I had a lot of syntax errors when testing the assignment menu options and though none of them blocked my ultimate progress, in total, they took a fair amount of time to resolve.

I placed the display of the menu within the main While control flow loop to ensure the user could see the menu options each time.

Running the script from Spyder:  
Here is the script output when running within Spyder:

### Adding CD Inventory to Memory: Text Description automatically generated

Figure – Adding first CD title to Memory

### Adding a 2nd CD title immediately after …

### Text Description automatically generated

Figure - Adding 2nd CD Title to Memory

### Display CD Title from Memory: Text Description automatically generated

Figure - Display CD Inventory in Memory

### Writing CD Inventory from Memory to Disk: Text Description automatically generated

Figure - Write CD Inventory from Memory to Disk

### Here is the text file in Notepad after writing from Memory to Disk:

### Graphical user interface, text, application, Word Description automatically generated

Figure - CDInventory.txt file after Writing from Memory to Disk:

## Delete a CD Inventory row in Memory: Text Description automatically generated

Figure - Deleting CD row from Memory

Running the script from Anaconda Console:

### Here is output after selecting menu options to add, display and delete Inventory from Memory: Text Description automatically generated

Figure - Console output to Add, Display and Delete CD Inventory Data

### Here is output after adding two CD’s to Inventory and writing them to File:

Text

Description automatically generated

Figure - Console output for Adding, Display and Deleting CD data from Memory

### Here is the CD Inventory Text File after the above steps:

Graphical user interface, text, application, table

Description automatically generated

### Finally, here is Console output after loading CD data from a file:

A screenshot of a computer

Description automatically generated with medium confidence

Figure - Console output after loading CD data from File

## Summary

For this assignment we learned the following:

* How to build lists in one and two dimensions with the inner dimension being dictionaries.
* How to search for dictionary values.
* How to unpack dictionary key/pair values.