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IT FDN 100 B

Assignment 05

To Do List Program

# Introduction

This week’s assignment involves creating a simple program that will demonstrate how to use dictionaries within lists. We also will be uploading program data to GitHub.

# Creating the Program

File was created in PyCharm using starter file per instruction. (Figure 1)

Graphical user interface, text, application, email

Description automatically generated  
***Figure 1: Shows starter file***

# Display Menu

Created menu for options within a *while* loop. The *while* loop’s condition is set to *True*. This will repeat the loop until specified condition is met. We will ensure that one of the conditions will eventually break the loop or exit the program to avoid an infinite loop. Display Menu.(Figure 2)

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

***Figure 2: Shows Display Menu***

# Display Data

Upon code execution, we load file data into *dictionary* and append to *list*.. (Figure 3)

Graphical user interface, text

Description automatically generated

***Figure 4: Shows data processing from file and appending dictionary to list***

# Then print the list to console based on user’s choice.(Figure 3.1)

Graphical user interface, text

Description automatically generated with medium confidence

***Figure 4.1: Shows printing list***

# Add New Item to List

We took user’s data and appended directly to list.(Figure 4)

Graphical user interface, text, chat or text message

Description automatically generated

***Figure 4: Shows adding user’s data to list.***

# Removing Item from list

We used the remove method to delete item from list. (Figure 5)

Graphical user interface, text, application

Description automatically generated

***Figure 5: Shows item deletion***

# Exit and Save Data to File

Using a combination of conditional statements, *for* loops and *objfile* function we write data to file and exit program. (Figure 6)

Graphical user interface, text, application

Description automatically generated

***Figure 6: Shows writing data to file and exiting program***

# Executing Program

Per instructions program was executed from PyCharm. (Figure 6)

Graphical user interface, text, application

Description automatically generated

***Figure 6: Shows program execution***

Display data file from within PyCharm. (Figure 6.1)

Graphical user interface, text, application

Description automatically generated

***Figure 6.1: Shows item entry in data file***

Per instructions program was executed from terminal. (Figure 6.3)

Text

Description automatically generated

***Figure 6.3: Shows program execution***

Opened data file to confirm data entry. (Figure 6.3)

Text

Description automatically generated

***Figure 6.3: Shows item entry in data file***

# Summary

This week’s assignment involved updating previous Home Inventory script to allow user to add multiple items and write data to file. We utilized dictionaries within lists along with conditional statements and looping. We uploaded code to GitHub.