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IT FDN Programming 110

Module04 Assignment04

FDN Programming 110 Assignment 04

# Introduction

Assignment04 asks us to write a python script that will prompt a user for options to 1) Enter Household Inventory items  
2) Display a full list of items entered or 3) Quit the program and save the Inventory list to a text file.

# Step 1: Build the script.

The script uses a While Loop as the control logic to handle menu choices. Household Items are stored in a two- dimensional list.

Figure 1 is the code listing from NotePad++ which was used to display the full script:

Figure 1 - HomeInventory.py code listing

Graphical user interface, text, application

Description automatically generated

Step 3– Run the script

1. From the PyCharm Application  
     
   Figure2 is the output from PyCharm. For the option to display the Inventory, I just displayed the contents of the list without applying any formatting.

Figure 2 - PyCharm output after running HomeInventory.py

Graphical user interface, text, application, email

Description automatically generated  
  
The user input data was saved to a file named HomeInventory.txt. The contents of the file after the Household.py ran in PyCharm is shown in Figure 3 below.

Figure 3 - HomeInventory.txt contents

Graphical user interface, application, Word

Description automatically generated

1. Execution of the script from the Windows-11 Command Prompt.  
     
   Here is the output from the Command Prompt:

Figure 4 - running HomeInventory.py from Windows 11 Command Prompt

Text

Description automatically generated

After executing HomeInventory.py from the Windows command prompt, the contents of HomeInventory.txt were overwritten since the file was opened in ‘write’ mode rather than append mode.

Figure 5 - Updated contents of household.txt

Graphical user interface, application, Word

Description automatically generated

# Summary

For this assignment we learned the following:

* How to construct two dimensional lists.
* How to use Looping to control logic for a user menu
* How to access specific elements of a list.