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Github repository: https://github.com/Emmanuelihej/IntroToProg-Python

INTRO TO PROGRAMMING

Intro

In my sixth week of the Foundations of Programming: Python course, we learned how to create our own functions and use them to create our program. With this new knowledge we were supposed to implement the last hw assignment into this current one, using the def function tool. We also applied what we learned the previous week to this assignment. The assignment attached to this lecture asks us to create a program that will display a menu to the user, asking the user to select from the list: display tasks entered, add a task and its priority level, choose which row do they want to delete, save the information entered to the .txt file, or close the program, all wrapped up in a def function

Creating the Program

After reading the assignment prompt, I understood what needed to be done and began to work out how I wanted each function to look like. I took the professor's advice and tackled the code one section at a time. Which means that I would complete one menu function at a time. For this assignment I did struggle with sectioning the program and at the end of it was not able to get the program to run completely. In Figures 1-7 you will see what I was able to complete regarding the python programming.

Figure 1. Starting lines and comments of my program

```
param file_name: (string) with name of file:

param list_of_rows: (list) you want filted with file data:

param list_of_rows.(list) you want filted with file data:

param list_of_rows.clear() # clear current data

file = open(C:\_\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\rangle\r
```

Figure 2. Continuation of my program

Figure 3. Continuation of my program

Figure 4.

Figure 5.

Figure 6.

Figure 7.

The program when done correctly will do what assignment 5 does but the blocks of code will be organized into def functions to make things easier. It will display to the user anything that is already in the file then a menu and prompt them to select a number between 1 and 5. These numbers correspond to an action item on the menu, previously stated. Then just as in the example from assignment04 the program will close the .txt file and tell the user that the data has been saved, when the user decides. Telling the user this ensures the data was saved because the program would have failed and not told us, it is a way to confirm that part of the program worked successfully. I followed along with the lecture video and made sure to comprehend each step and attempt them myself. One issue that stuck out to me was my for Tasks function, when using a dictionary but it was solved in office hours.

Summary

I attempted to create a program that will display a menu to the user and ask the user what options they want to choose. You will see my program in figures 1-7. What I took from this was how to allow the user to create a task list they may want to keep track of and how to use the .open, .write, dictionary, and .close functions in while true and if statements, and organize the information into processing and user input functions. Although I am a little discouraged at not completing this assignment I will continue to push forward.

```
Command Prompt - python.e. × + v
[{'Task': 'clean', 'Priority': 'low'}, {'Task': 'dust', 'Priority': 'high'}, {'Task': 'shower', 'Priority': 'e'}, {'Task': 'clean', 'Priority': 'low'}, {'Task': 'shower', 'Priority': 'high'}, {'Task': 'dust', 'Priority': 'high'}]
    Menu of Options
    1) Show current data
2) Add a new item.
    3) Remove an existing item.4) Save Data to File
    5) Exit Program
Which option would you like to perform? [1 to 5] 45
    Menu of Options
    1) Show current data

    Add a new item.
    Remove an existing item.

    4) Save Data to File
    5) Exit Program
Which option would you like to perform? [1 to 5] 4 saved to file
    Menu of Options
    1) Show current data
    2) Add a new item.
    3) Remove an existing item.
    4) Save Data to File
    5) Exit Program
Which option would you like to perform? [1 to 5]
```

Figure 5. Script ran to completion

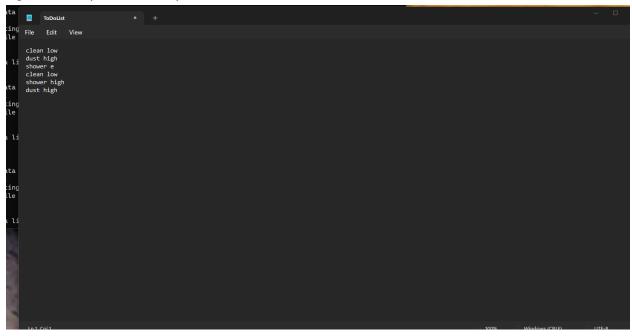


Figure 6. .txt file of HomeInventory