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Foundations of Programming: Python

Assignment 06

GitHubURL: <https://github.com/seanybmb/IntroToProg-Python>

GitHub Page: <https://seanybmb.github.io/IntroToProg-Python-Mod06/>

Creating the Home Inventory Menu Script

Introduction

This paper outlines the necessary steps to create the ToDo Python Menu Script which allows a user to input a “To-Do” list, indicate the priority, delete added rows, save the information to a text file, and then closes the program. This program is similar to the previous script but uses functions.

Writing and Running a Home Inventory Python Script

I wrote and ran the script using PyCharm.

The goal is to create a python script file that allows a user to input any number of “To-do” items and include a priority for each item. A user can add items and elect to display the current data. Each row of information, including the listed “Task” and “Priority” that matches a user input can be deleted. Once complete, a user can save the list to a text file and then close the program.

Once the code was in place, I ran the code in PyCharm and via a Console Application. (Figure 1)

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help HomelInventory.py - Assignment06_Starter_updated.py
PythonClass > Assignment06 > Assignment06_Starter_updated.py
Project > Assignment06_Starter_updated.py
Run: Assignment06_Starter_updated
C:\_PythonClass\venv\Scripts\python.exe C:/_PythonClass/Assignment06/Assignment06_Starter_updated.py
***** The current tasks ToDo are: *****
sweep (high)
dust (high)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 1

What is the new task? vacuum
What is the priority? high
***** The current tasks ToDo are: *****
sweep (high)
dust (high)
vacuum (High)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 2
```

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help HomelInventory.py - Assignment06_Starter_updated.py
PythonClass > Assignment06 > Assignment06_Starter_updated.py
Project > Assignment06_Starter_updated.py
Run: Assignment06_Starter_updated
Which task do you want to remove? dust
Task removed.
Task removed.
***** The current tasks ToDo are: *****
sweep (high)
vacuum (High)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 3

Data Saved!
***** The current tasks ToDo are: *****
sweep (high)
vacuum (High)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 4
```

Figure 1: Example Code

After running, testing and finalizing the script I ran the code using the “Command Prompt” system. Although the script would mostly run using the Command Prompt window, it would not save to a text

file. Subsequently, I changed the directory to the folder the script was in, typed “python” and then ran the script successfully. Once done, I hit enter which then prompts me to make my selection. I input several pieces of data, displayed the data and then closed the script which wrote the lists to a text file. (Figure 2)

```

C:\Users\micbe>cd C:\_PythonClass\Assignment06

C:\_PythonClass\Assignment06>python Assignment06_Starter_updated.py
***** The current tasks ToDo are: *****
sweep (high)
vacuum (High)
*****

    Menu of Options
    1) Add a new Task
    2) Remove an existing Task
    3) Save Data to File
    4) Exit Program

Which option would you like to perform? [1 to 4] - 1

What is the new task? jump
What is the priority? low
***** The current tasks ToDo are: *****
sweep (high)
vacuum (High)
jump (low)
*****

    Menu of Options
    1) Add a new Task
    2) Remove an existing Task
    3) Save Data to File
    4) Exit Program

Which option would you like to perform? [1 to 4] - 2

Which task do you want to remove? sweep
Task removed.
Task removed.
***** The current tasks ToDo are: *****
vacuum (High)
jump (low)
*****

    Menu of Options
    1) Add a new Task
    2) Remove an existing Task
    3) Save Data to File
    4) Exit Program

```

```

C:\_ Command Prompt
Which option would you like to perform? [1 to 4] - 2

Which task do you want to remove? sweep
Task removed.
Task removed.
***** The current tasks ToDo are: *****
vacuum (High)
jump (low)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 3

Data Saved!
***** The current tasks ToDo are: *****
vacuum (High)
jump (low)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 4

Goodbye!

C:\_PythonClass\Assignment06>

```

Figure 2: Console Application running Python Script

Summary

This paper described the process, using PyCharm (to create the Home Inventory Menu Script) and then explains how to run the script using Command Prompt to create a console application that receives input and writes the input information to a text file.