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August 16th, 2023

IT FDN 110 A Su 23: Foundations Of Programming: Python

Assignment06

<https://github.com/DMTurnipseed/IntroToProg-Python#introtoprogram-python>

Functions

Introduction

This assignment calls for modifying a script that manages a to-do list by adding more functions. I took the answer provided to Assignment 05, learned from the previous mistakes I made, and tried to organize that code into functions. There were many errors and this assignment required a lot of asking for help from classmates and our instructor.

Troubleshooting Errors

One of the main errors I encountered was for Option 2: Remove an existing Task. When I entered the input, it repeated the prompt to enter the input rather than moving on to the next step (Figure 1).

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

```
Which TASK would you like removed? - workout
```

```
Which TASK would you like removed? - workout
```

```
I'm sorry, but I could not find that task.
```

```
Which TASK would you like removed? - workout
```

```
I'm sorry, but I could not find that task.
```

```
Which TASK would you like removed? - workout
```

```
I'm sorry, but I could not find that task.
```

```
Which TASK would you like removed? - workout
```

```
***** The current tasks ToDo are: *****
```

```
clean (high)
```

```
cook (low)
```

```
shop (high)
```

```
*****
```

Menu of Options

- 1) Add a new Task
- 2) Remove an existing Task
- 3) Save Data to File
- 4) Exit Program|

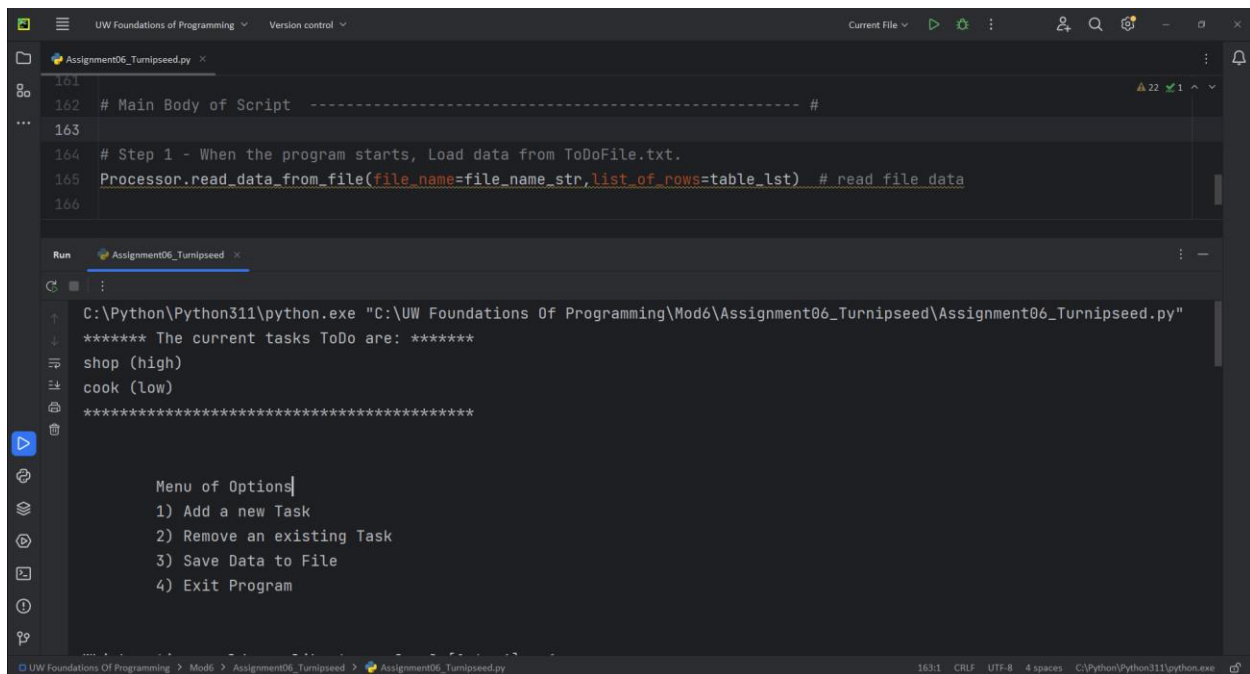
Figure 1: The input option repeats until finally showing the menu of options again

Eventually, after trying many different approaches I had to look at the “More Help If Needed” folder. Professor Root also recommended that it might simply be an issue of indenting. So, I tried fixing that too.

Assignment 06

Program Start

The program starts correctly with the current tasks displayed and the menu of options working properly (Figure 2).



```
161
162 # Main Body of Script ----- #
163
164 # Step 1 - When the program starts, Load data from ToDoFile.txt.
165 Processor.read_data_from_file(file_name=file_name_str,list_of_rows=table_lst) # read file data
166
```

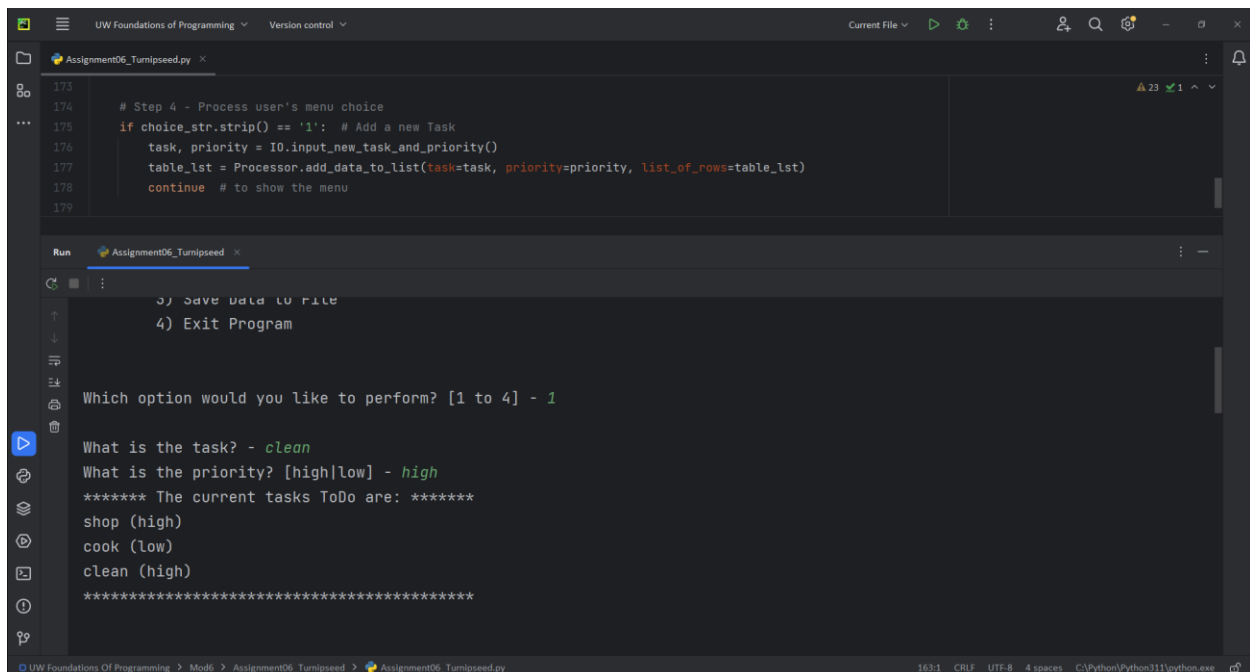
```
Run Assignment06_Turnipseed
C:\Python\Python311\python.exe "C:\UW Foundations Of Programming\Mod6\Assignment06_Turnipseed\Assignment06_Turnipseed.py"
***** The current tasks ToDo are: *****
shop (high)
cook (low)
*****

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

Figure 2: Reading data from file and menu of options working correctly.

Option 1: Add a new Task

I experimented with several different text strings and they displayed correctly without issue (Figure 3).



```
173
174 # Step 4 - Process user's menu choice
175 if choice_str.strip() == '1': # Add a new Task
176     task, priority = IO.input_new_task_and_priority()
177     table_lst = Processor.add_data_to_list(task=task, priority=priority, list_of_rows=table_lst)
178     continue # to show the menu
179
```

```
Run Assignment06_Turnipseed
3) Save Data to File
4) Exit Program

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

What is the task? - clean
What is the priority? [high|low] - high
***** The current tasks ToDo are: *****
shop (high)
cook (low)
clean (high)
*****
```

Figure 3: Adding tasks displaying correctly.

Option 2: Remove an existing Task

This is the option that gave me the most trouble, but here it is (finally) working—hallelujah! (Figure 4)

```
180     elif choice_str == '2': # Remove an existing Task
181         task = IO.input_task_to_remove()
182         table_lst = Processor.remove_data_from_list(task=task, list_of_rows=table_lst)
183         continue # to show the menu
184
```

Run Assignment06_Turnipseed

```
Which TASK would you like removed? - shop
The task was removed.
***** The current tasks ToDo are: *****
cook (low)
clean (high)
*****
```

Figure 4: Remove task working correctly.

Option 3: Save Data to File

Saving the data to file works correctly. I think I might modify it in the future so it goes directly to the menu of options rather than pressing the enter key to return to menu (Figure 5).

```
185     elif choice_str == '3': # Save Data to File
186         table_lst = Processor.write_data_to_file(file_name=file_name_str, list_of_rows=table_lst)
187         print("Data Saved!")
188         continue # to show the menu
189
```

Run Assignment06_Turnipseed

```
Which option would you like to perform? [1 to 4] - 3
***** The current items ToDo are: *****
cook(low)
clean(high)
*****
Save this data to file? (y/n) - y
Data saved to file! Press the [Enter] key to return to menu.
Data Saved!
```

Figure 5: Data saves correctly, I opened the .txt file to verify.

Option 4: Exit Program

No issues when breaking the loop and exiting the program (Figure 6).

