Name: Cameron Allen Date: May 18, 2023 Course: IT FDN 110 A

GitHub: https://ct-allen.github.io/IntroToProg-Python-Mod06/

Assignment 06 – Functions

Intro

Our assignment this week was another test of working with existing code and adapting it with our own code. We introduce and start using 'classes' & 'functions'. These new features will enable us programmers to better organize our code, this is all part of the principle of 'Separation of Concerns'.

Input a Task

My first obstacle was getting 'input_new_task_and_priority' to work properly. It took some searching and to find that we are supposed to remove the 'pass' that was in this location. Then it took some more trial and error to determine that we must add the 'return' with the variable call outs inside it in order to get the user's inputs back to the main body code.

Figure 1: First obstacle

Remove a Task

I wondered if you could use a 'return' statement within a 'if' statement to give back a value to the main code body to have it print a statement depending on what the 'Processor' class code did.

The simple way for now is to have the print statements in the 'Processor' code but this isn't quite in-line with the Separation of Concerns we are striving for.

Figure 2: Print statements within our 'Processor' code.

No File Found

At this point I have a full working program except for when a user doesn't have an existing ToDoFile.txt in their directory. So, to fix this I wanted to use the 'try' function list last week. At first, I was having errors but after fiddling around with it a bit it turned out to be a simple extra indentation that wasn't supposed to be there.

Figure 3: An extra space just before the 'try' function that gave the error shown.

Figure 4: Correct and working code.

```
Which option would you like to perform? [1 to 4] - 3
Data Saved!
****** The current tasks ToDo are: ******
Mow Lawn (low)
Homework (High)
dishes (med)
Haircut (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!
PS C:\_PythonClass\Assignment06>
```

Figure 5: Command Line verfication

Summary

By adapting last weeks code with the week 6 code provided we made a new program that uses the principle 'Separation of Concerns'. With that we separate our code into different blocks, each block performs a different type of task. The blocks are called 'classes' and within each class we have different 'functions'. This is a very clean way to organize our code. However, when programming as a beginner if can be a little confusing with the functions calling other function which makes you have to jump around in your code and not just look at the next line.

After getting a grasp of the notes in the Assignment06_starter script and understanding the 'pass' and 'return' functions I was easily able to complete the program. I made sure to include code that would still let our program run even if the user didn't have a file called 'ToDoFile.txt' in their directory, which wasn't technically asked for in the prompt.