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Foundations of Programming: Python

Assignment 06

<https://github.com/SirDubbins/IntroToProg-Python-Mod06>

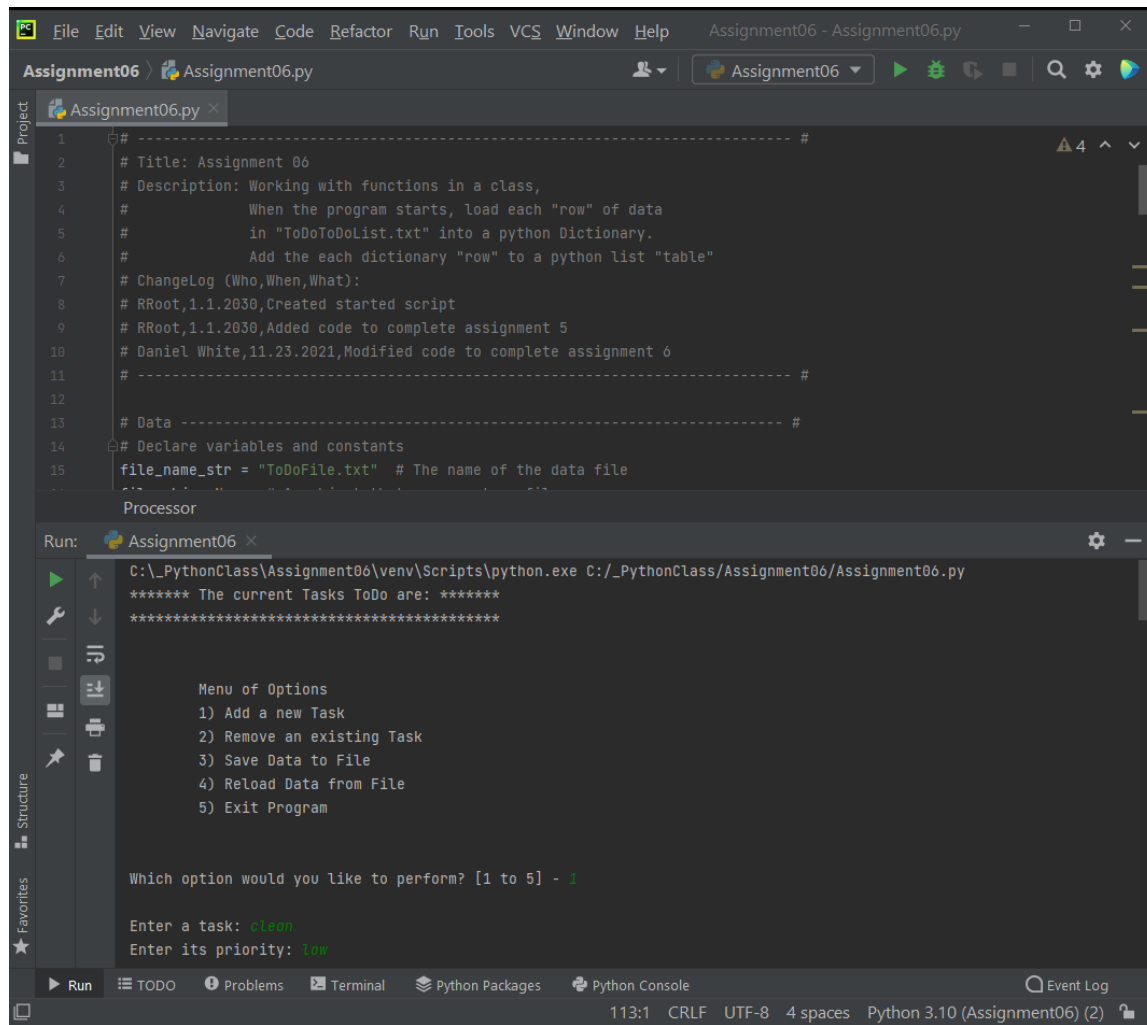
## To Do List Program Part 2

### Introduction

In this module we utilized functions as a way to expand on our previous work of making a to do list program. By using functions this way we were able to break up our script into smaller and more manageable parts as a means of staying more organized. To accomplish this, we took an in-depth study on functions and how to incorporate them into our code appropriately.

### Program Design

In this script we defined several functions and then would call them when appropriate. The script is divided into sections. First, we set some global variable definitions and then open the ToDoFile.txt and have its contents put into memory. Next, we establish a class for a specific group of functions. The first class we establish is Processor. In this section we define all processing type functions such as adding data and writing files. The next class we established was input/output or IO. The functions defined in this section include input and print type function. The section following this is the main body of the script. In this section we call upon the previous functions in accordance with the users desires. Below you will find the program working in both PyCharm and CMD.



**Figure 1.** The To Do List program running successfully within PyCharm

```
C:\WINDOWS\system32\cmd.exe - C:\PythonClass\Assignment06\Assignment06.py
Microsoft Windows [Version 10.0.19042.1348]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dubbe>CD C:\_PythonClass\Assignment06

C:\_PythonClass\Assignment06>C:\_PythonClass\Assignment06\Assignment06.py
***** The current Tasks ToDo are: *****
sleep (high)
*****

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

Which option would you like to perform? [1 to 5] - 1

Enter a task: sleep
Enter its priority: high
Success
Press the [Enter] key to continue.
***** The current Tasks ToDo are: *****
sleep (high)
sleep (high)
*****
```

**Figure 4.** The To Do List program running successfully within CMD

## Summary

We took an in-depth look into how to utilize functions in order to better organize your codebase. We expanded on our previous work of the To Do List program and used functions as a way to break up our script into smaller and more manageable parts. We divided our functions into classes and called on them when appropriate.