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05/24/2023

Foundations of Programming: Python

Assignment 6

[x10339966/IntroToProg-Python \(github.com\)](https://github.com/x10339966/IntroToProg-Python)

Apply Your Knowledge: Week 6

Introduction

This activity will demonstrate working with functions and a simple class within a script which will modify a file named **ToDoFile.txt**.

A follow on activity will involve posting work to a GitHub repository that includes a GitHub web page.

Modify Assignment06_Starter.py File

Step 5 of this assignment asked that we start our work with the **Assignment06_Starter.py** file. I modified the name of this file to **Assignment06.py** after listening to the instruction in the *Assignment 06 Review* video.

At the completion of this assignment the below functions had been written.

- Processor.read_data_from_file(strFileName, lstTable)
- Processor.add_data_to_list(strTask, strPriority, lstTable)
- Processor.remove_data_from_list(strTask, lstTable)
- Processor.write_data_to_file(strFileName, lstTable)
- IO.input_new_task_and_priority()
- IO.input_task_to_remove()

I was able to confirm successful execution of the below actions.

- Load data in a file (ToDoFile.txt) into a list
- Write list data to a file (ToDoFile.txt)
- Add rows to a list
- Remove items from the list
- Reload a current list with data from a file (ToDoFile.txt)

Run Your Script

Step 5 asks that the saved script be executed from an OS shell window (Figure 1).

```

C:\_PythonClass\Assignment06>python.exe Assignment06.py
python.exe: can't open file 'Assignment06.py': [Errno 2] No such file or directory

C:\_PythonClass\Assignment06>python.exe Assignment06.py
***** The current Tasks ToDo are: *****
Running (Low)
*****

    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

Type in a 'Task' and 'Priority' for your To Do List
Enter a Task: Jogging
Enter a Priority: Low

Press the [Enter] key to continue.
***** The current Tasks ToDo are: *****
Running (Low)
Jogging (Low)
*****

    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] - 3

Save this data to file? (y/n) - y

Press the [Enter] key to continue.
***** The current Tasks ToDo are: *****
Running (Low)

```

Figure 1: The results of running Assignment06.py from a command shell

Step 5 also asks that the saved script executes successfully PyCharm (Figure 2).

```

"C:\Program Files (x86)\Microsoft Visual Studio\Shared\Python37_64\python.exe" C:/_PythonClass/Assignment06/Assignment06.py
***** The current Tasks ToDo are: *****
Running (Low)
*****

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

Type in a 'Task' and 'Priority' for your To Do List
Enter a Task: Jog
Enter a Priority: Low

Press the [Enter] key to continue.
***** The current Tasks ToDo are: *****
Running (Low)
Jog (Low)
*****

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] - 4

Warning: Unsaved Data Will Be Lost!
Are you sure you want to reload data from file? (y/n) - y

Press the [Enter] key to continue.
***** The current Tasks ToDo are: *****
Running (Low)
*****

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] -

```

Figure 2: The results of running Assignment06.py from PyCharm

Verify the Script Worked

Below is a screen capture showing the text file **ToDoFile.txt** exists and has been updated from the program interface. (Figure 3).

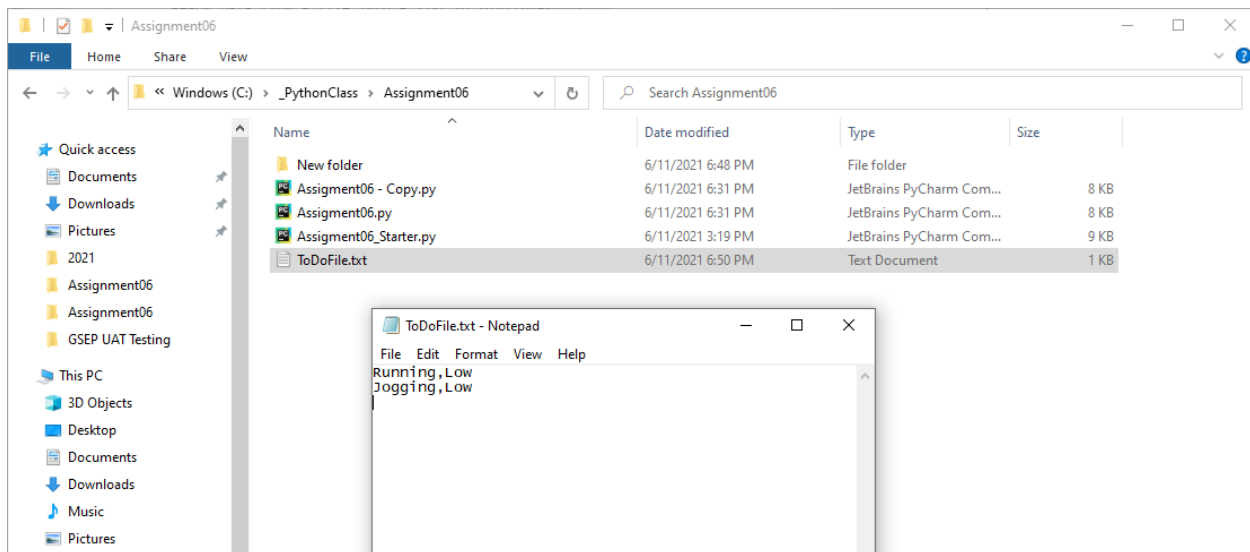


Figure 3: Contents of the target file – ToDoFile.txt

Create a GitHub WebPage

Below is a screen capture showing that I have created a GitHub webpage. The page can be accessed at <https://x10339966.github.io/ITFund100-Mod06/> (Figure 4).

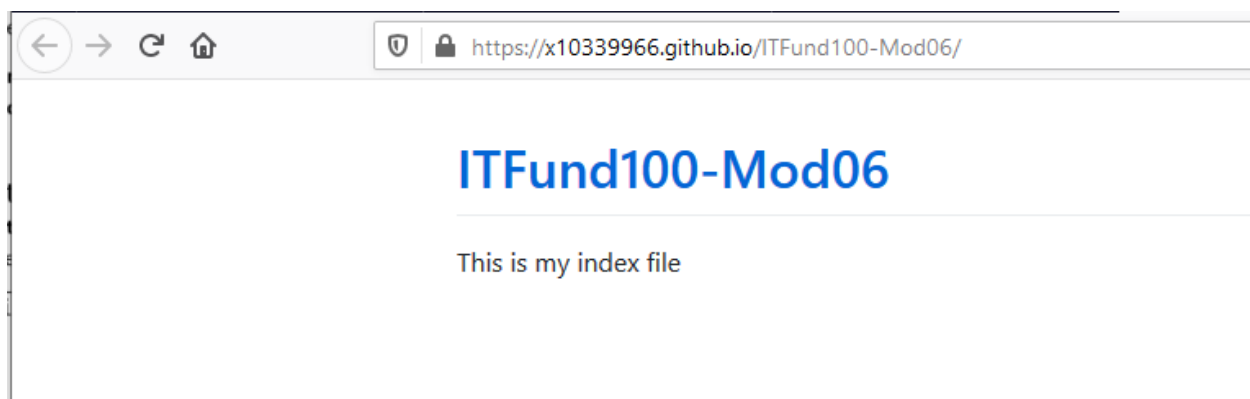


Figure 4: Screenshot of GitHub WebPage

Upload Week 6 Deliverables to GitHub

I created a repository named **x10339966/IntroToProg-Python-Mod06** as instructed and uploaded my Word document and .py file as seen in the screen shot below (Figure 5). Please note the Word document is not in this screen shot as it was taken before the Word doc was uploaded.

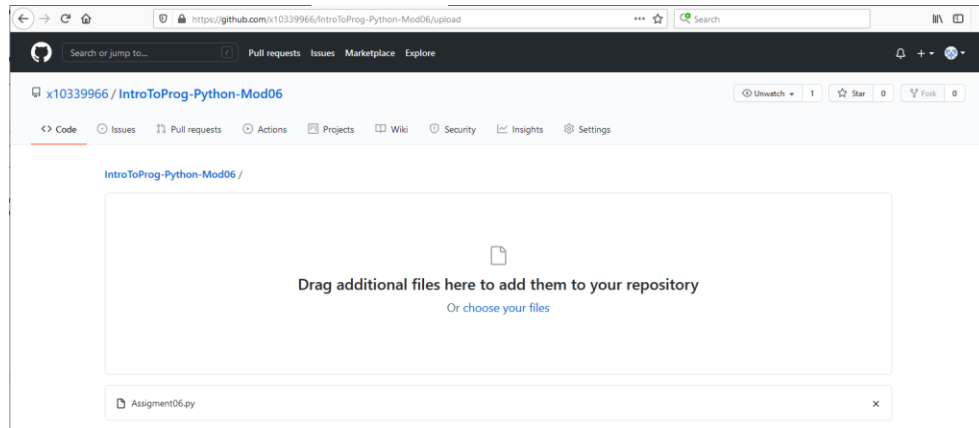


Figure 5: Screenshot of GitHub Repository Upload

Summary

In this assignment we:

- Created a program using functions
- Created a GitHub Web Page
- Uploaded week 6 deliverables to GitHub