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Course: IT FDN 110 A

Assignment #: Assignment 6

Github link: https://github.com/ruby0606/IntroToProg-Python-Mod06

Assignment 6: Functions

Introduction

In this document, I wrote down the steps I took to modify the shared python script to use functions to read a file, request user to choose a menu option, add a new row to the dictionary contents, remove existing row, display the stored information, save it to the file, and reload file. I watched the videos from Module 6, went through the text for Module 6 and read the fifth chapter from the book "Python Programming for Absolute Beginners". I encountered some challenges in utilizing the "Processor" function especially for removing an existing task.

Step 1: Load Data and display menu

I created a text file called "ToDoFile.txt" with some tasks and priorities listed and separated by a comma. This code to display menu was already present in the shared python script.

Step 2: Add a new item to the table

When user selects this action, I requested the user to add a new task and the relevant priority by utilizing the class IO> input_new_task_and_priority function. I stored them as string inputs "Task" and "Priority". I then processed this data utilizing the Processor class and added it to the existing tasks and priorities in the file. I

executed this block of code and attempted choice 1 from the menu options, it ran successfully.

Step 3: Remove an item from the table

When user selects this action, I requested the user to enter the name of the task they would like to remove from the Class IO: input_task_to_remove function. If a match is found, I removed the selected task and relevant priority from the table. If a match is not found, I displayed a relevant message to the user. I declared "strRmvTask" under data declaration. I encountered some errors as I used incorrect variable name. I made the required corrections and executed this action to ensure my code is working well so far for Choice 1 and Choice 2.

Step 4: Save to File

When user selects this action, I requested the user to confirm the action with y/n. I wrote these changes to the existing file and displayed a message to the user by updating the code under choice 3 to save to the file.

Step 5: Reload File

When user selects this action, I requested the user to confirm the action with y/n. I reloaded the file and displayed a message to the user by updating the code under choice 4 to read the existing file.

Step 6: Exit Program

When user selects this action, the current contents are displayed along with a message to the user about exiting the program.

Step 7: Results in pyCharm

Results in PyCharm showing the text file that is updated, data input from user to add a new row, saving results to file displaying the final results in the text file.

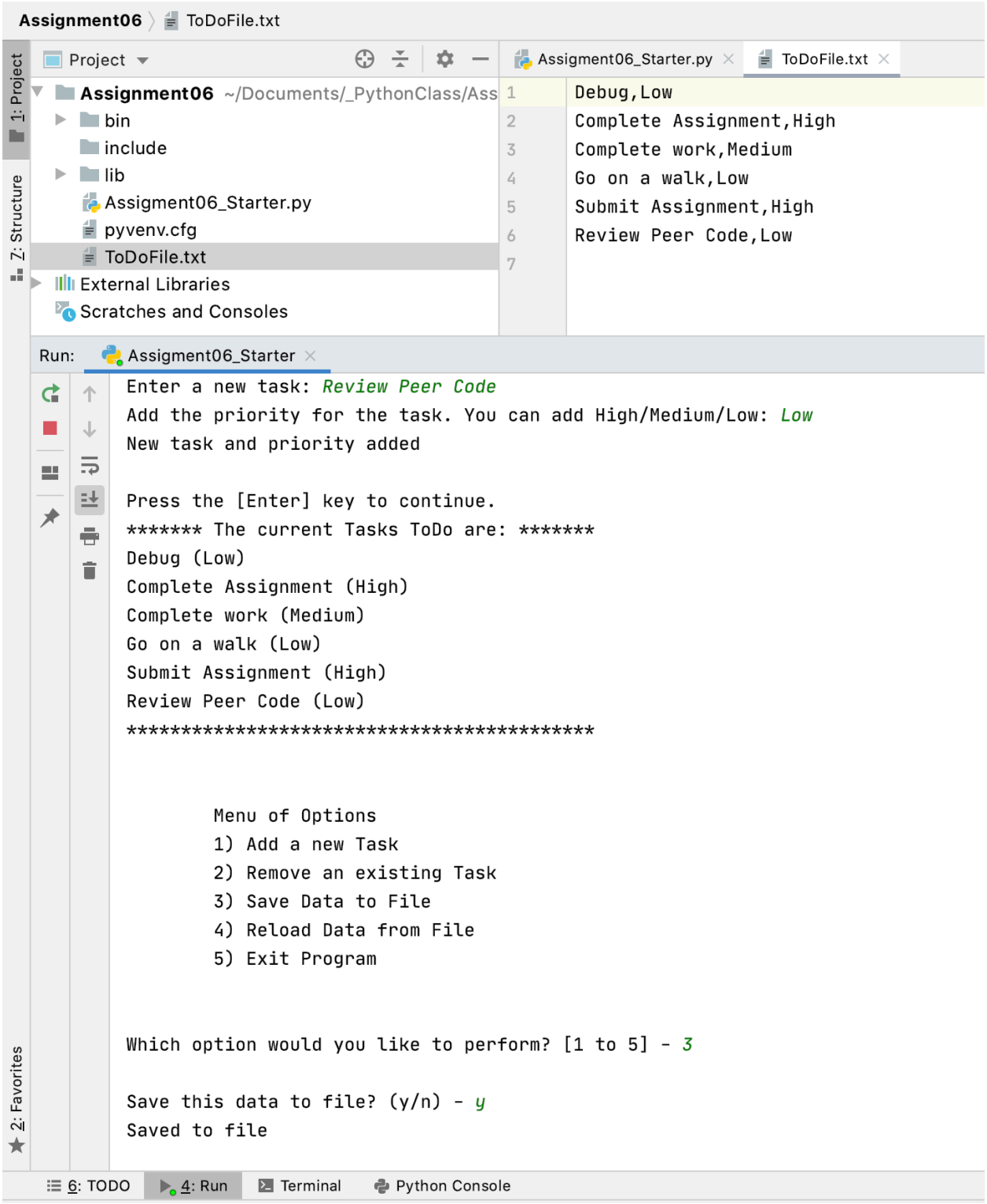

Fig 1: Screenshot of the result in Pycharm along with the results written to the text file.

Step 8: Results in Terminal

Results in Terminal displaying the user's entry to remove an existing item and the corresponding results saved to the text file.

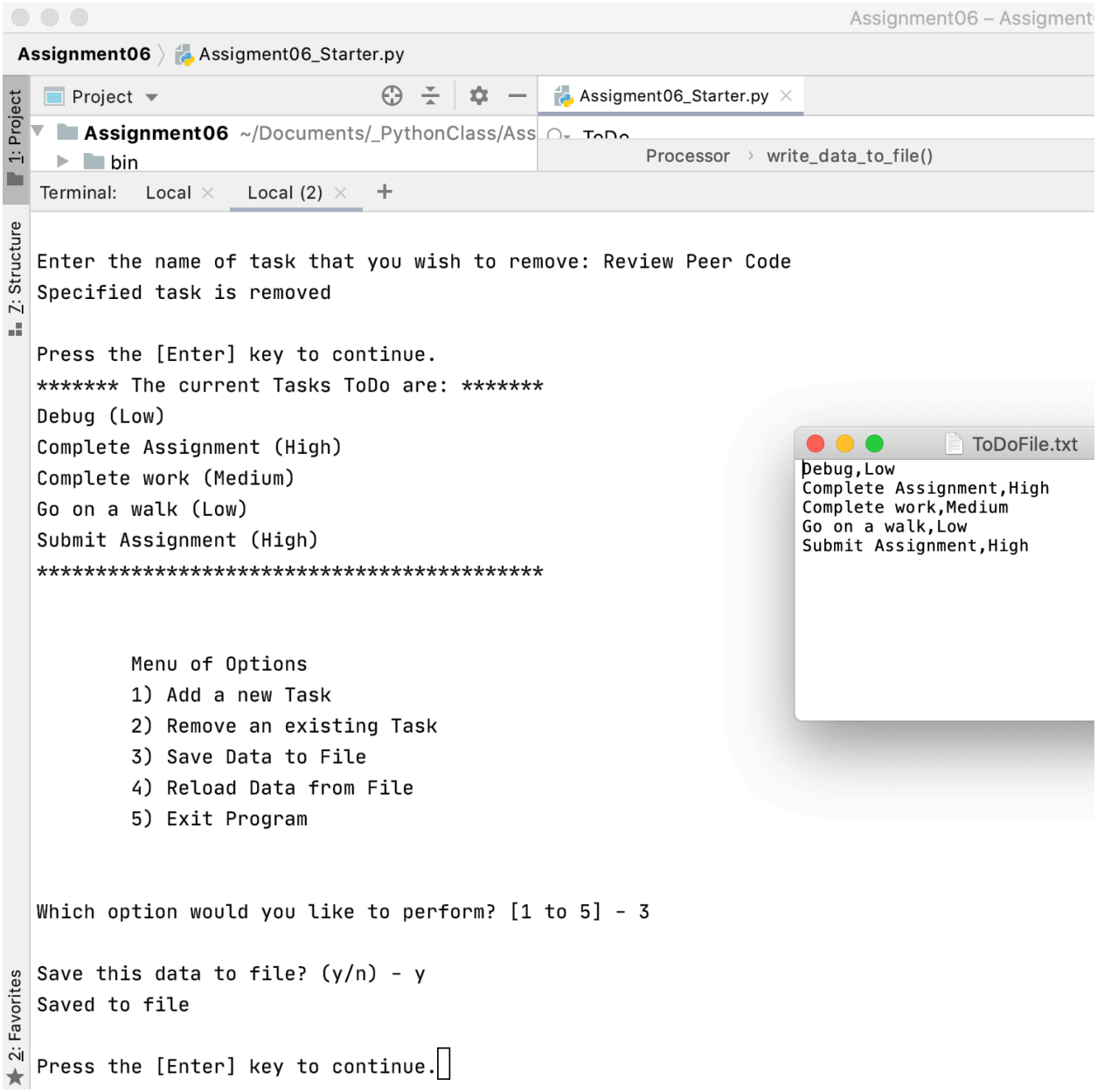

Fig 2: Screenshot of the result in Terminal along with the results written to the text file.

Step 9: Github link

As per the instructions, I created a new Github repository and checked in my code.

https://github.com/ruby0606/IntroToProg-Python-Mod06

Summary

I reviewed Professor Randal's videos and executed each step several times. This was the most challenging assignment so far. Professor's existing code under Class IO was really helpful. I referred to the previous assignment as the expected results were similar and helpful in getting the individual pieces correctly. Breaking down each step and executing it separately helped me complete the assignment. It was challenging to ensure all actions could be completed successfully. I also posted my work to Github.