

Christian Todhunter

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IT FDN 100 A

Assignment05

DICTIONARIES!!!!

INTRODUCTION TO MODULE 05

Module 5 introduced us to further functions of a list and added dictionaries to our knowledge base. The other items added were the use of some error handling techniques, Github repositories, programming patterns, and script templates!!!

THE ASSIGNMENT REQUIREMENTS

The follow figure outlines the task at hand from R. Roots "Assignment05" document:

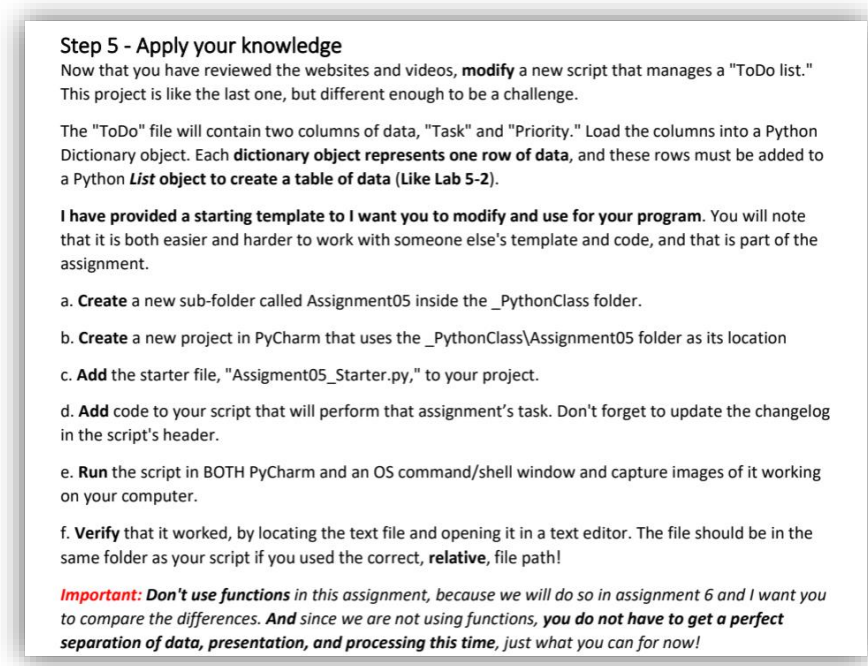


Figure 1: Screenshot from Assignment05 by R. Root

In addition to the above, we were also tasked with uploading THIS DOCUMENT to GitHub, along with the corresponding python file.

MY APPROACH

This week I made sure to read the chapter from our text very thoroughly, as last week I felt ill prepared for the assignment. However unfortunately I wasn't able to attend the Tuesday review session this week and I think doing so would have helped, so I will make sure to attend the upcoming session for module six. After reading the text, I watched the video for Module 05 and visited the external sites as usual. I ended up re-reading parts of the chapter and re-watching some parts of the videos to solve some issues I was having.

Most of my time for this assignment was spent figuring out how to properly populate a dictionary. I kept having issues with printing the dictionary and seeing only the last row in the text file that was supposed to be loaded. At first I thought this was due to the `strip()` and `split()` function not working properly, or more accurately, as intended. Only after a good amount of time did I catch some text printed in bold in the assignment that served as a clue to what was going wrong, see Figure 2 below:

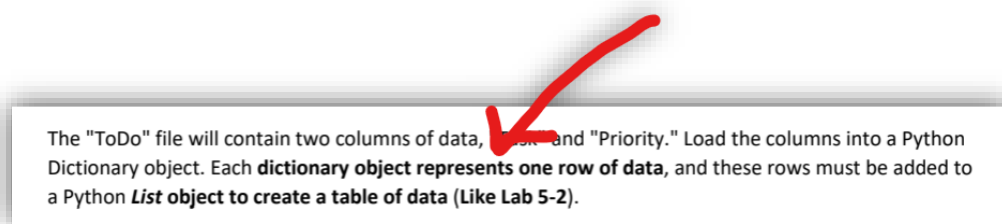


Figure 2: Screenshot from Assignment05 in PyCharm

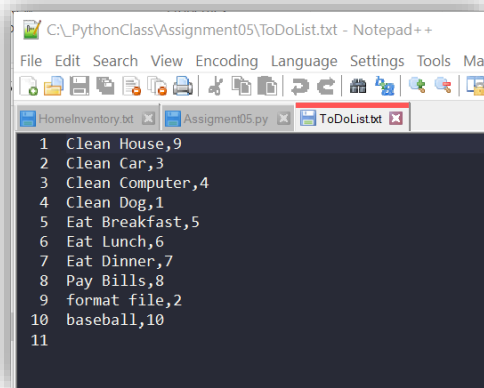
Figure 3 shows a screenshot of the loop that fixed the issue. The trick was recalling that the `dicRow` variable gets rewritten every time the loop steps through a row in the data file. Specifically, I was missing line 40. I needed to append the `dicRow` to each row being created in the `lstTable` via the loop. Other than this, I had a little bit of trouble figuring out how to find a string within the list, but the Module 05 forum helped me with that:

```
36
37 for row in objFile:
38     lstRow = row.split(',')
39     dicRow = {'Task':lstRow[0], 'Priority':lstRow[1].strip()}
40     lstTable.append(dicRow)
41 objFile.close()
42
```

Figure 3: For loop example from Assignment05 in Notepad ++.

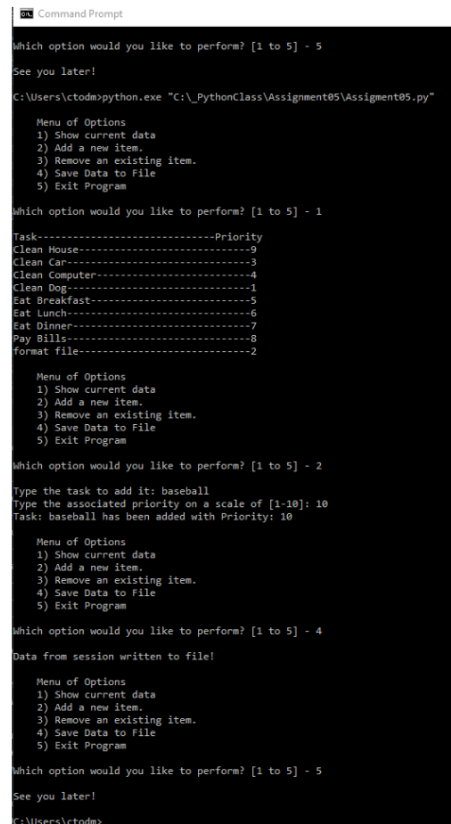
THE SOLUTION ARRIVES!

As previously stated, eventually I got it working! Below is a screenshot of the output .txt file (Figure 4), followed by the code running via command-line and PyCharm (Figures 5 and 6):



```
C:\PythonClass\Assignment05\ToDoList.txt - Notepad++
File Edit Search View Encoding Language Settings Tools Mac
C:\PythonClass\Assignment05\ToDoList.txt
1 Clean House,9
2 Clean Car,3
3 Clean Computer,4
4 Clean Dog,1
5 Eat Breakfast,5
6 Eat Lunch,6
7 Eat Dinner,7
8 Pay Bills,8
9 format file,2
10 baseball,10
11
```

Figure 4: Assignment05.py output .txt file via Notepad++



```
Command Prompt
Which option would you like to perform? [1 to 5] - 5
See you later!

C:\Users\ctodm>python.exe "C:\PythonClass\Assignment05\Assignment05.py"

Menu of Options:
1) Show current data
2) Add a new item.
3) Remove an existing item.
4) Save Data to File
5) Exit Program

Which option would you like to perform? [1 to 5] - 1
Task-----Priority
Clean House-----9
Clean Car-----3
Clean Computer-----4
Clean Dog-----1
Eat Breakfast-----5
Eat lunch-----6
Eat Dinner-----7
Pay Bills-----8
format file-----2

Menu of Options:
1) Show current data
2) Add a new item.
3) Remove an existing item.
4) Save Data to File
5) Exit Program

Which option would you like to perform? [1 to 5] - 2
Type the task to add it: baseball
Type the associated priority on a scale of [1-10]: 10
Task: baseball has been added with Priority: 10

Menu of Options:
1) Show current data
2) Add a new item.
3) Remove an existing item.
4) Save Data to File
5) Exit Program

Which option would you like to perform? [1 to 5] - 4
Data from session written to file!

Menu of Options:
1) Show current data
2) Add a new item.
3) Remove an existing item.
4) Save Data to File
5) Exit Program

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

C:\Users\ctodm>
```

Figure 5: Command-line running Assignment05.py (larger image available in submission)

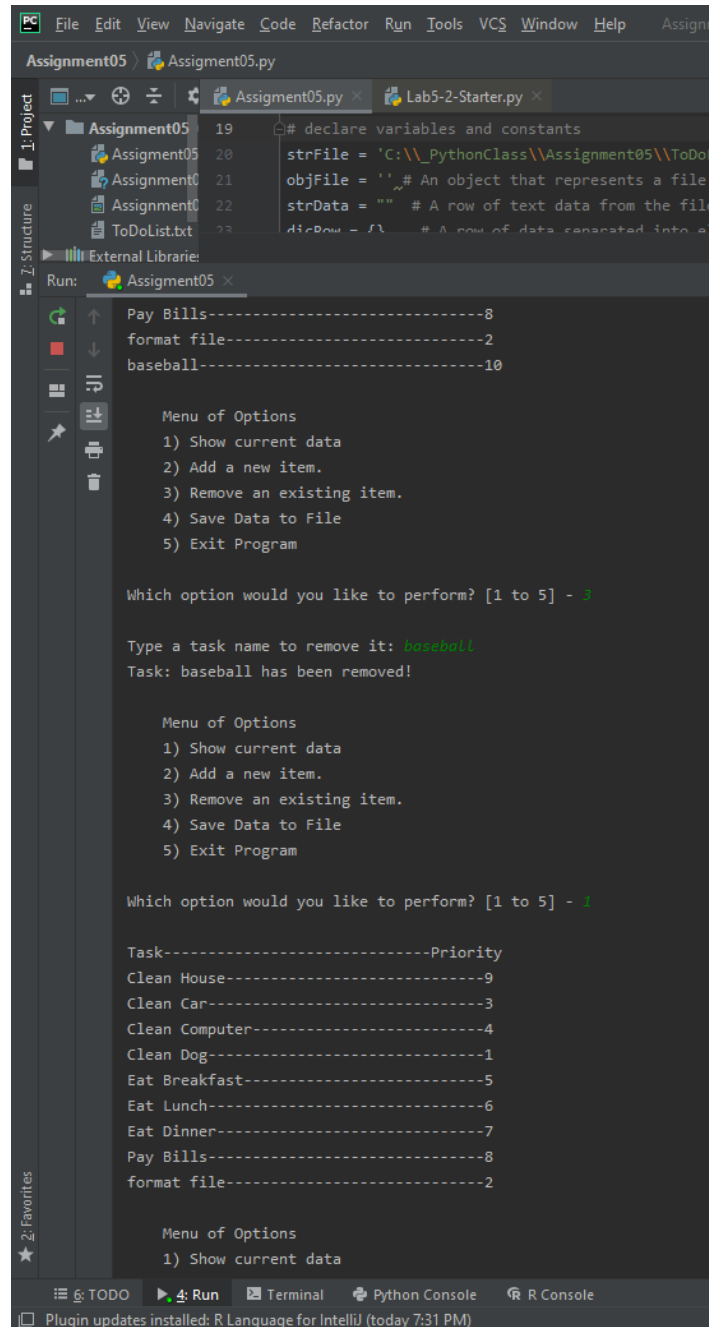


Figure 6: PyCharm running Assignment05.py

SUMMARY

Once again I was a pretty stumped on this one. Lucky for my I figured it out eventually. There are things I would have liked to incorporate in this code, such as sorting the list table by priority, detecting if a priority had already been assigned and prompting the user to choose an empty one, and detecting if a task item is duplicate or not. Some of these questions I plan to post to the forum and see if I can get some feedback. Otherwise, looking forward to Module 06!