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**Documenting my python learning experience in Assignment 05**

**Introduction**

During the past week python class, we learned the concept of dictionary which uses a key to call a value. The operation of a dictionary is different from a list which uses index (0, 1 and 2, etc.) to call a value. We continue to learn/apply the concept of a list table which consists of many row of lists (lstRow) or consists of many rows of dictionaries (dicRow). During the past five weeks of classes, we have continued to learn/apply how to allow a user to input data and save them into a “table” list, or open a file and read it into a python list or dictionary table (use for loop). We have also learned to use append function to add a lstRow or a dicRow and remove function to remove a row. In this assignment (Assignment 05), I try to apply these python skills to accomplish the task in assignment 05.

**Results**

The assignment05 is as following:

The "ToDo" file will contain two columns of data, "Task" and "Priority." Load the columns into a Python Dictionary object. Each **dictionary object represents one row of data**, and these rows must be added to a Python ***List* object to create a table of data** (**Like Lab 5-2**).

**I have provided a starting template to I want you to modify and use for your program**. You will note that it is both easier and harder to work with someone else's template and code, and that is part of the assignment.

Assignment05 has a template to ask what you need to do! I found this is particularly hard because I need to read and understand the Pseudocode carefully before I can do the coding. Since this assignment is about to execute a menu in five options (read the data from a file into a python object (a list table consisting of multiple list rows or dictionary rows), allow a user to add more data, remove data, save the data back to the file, OR exit). I found it is easier for me to test the coding for one option at a time. For a person like me who gets used to see the data on a spreadsheet in Excel, a table of data appear to be very different in python. Another key concept in python coding is that you don’t edit a file directly, you read the file into an object in python (objFile, a file handle!) and in the end, you will need to write the edited data back to the file (saving step).

**Summary**

Writing python codes in PyCharm is fun. Through this assignment, I have learned several things:

1. When coding task is complex, using pseudocodes to guide your thinking process.
2. Loop and conditional statement in python are very useful to get through a menu.
3. A table of data can be viewed as rows of list data. You can access the table data using for loop and access each row of data as a list.
4. A table of data can be also viewed as rows of dictionaries.
5. Testing a portion of your codes when the code gets too long and/or too complicated. This way you can easily correct the mistakes in a small section of coding.