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Foundations of Programming: Python
Assignment 06
https://github.com/sydweiss/IntroToProg-Python-Mod06/blob/IntroToProg-Python/README.md

Module 06

Introduction

In Assignment 6, I am editing a starter script file from Professor Rand. This task in this assignment is to recreate Assignment 05, but using functions.

Creating the Program

When creating this Python script, I opened PyCharm and opened the previously built code. Created functions in order to follow the assignment guidelines.

The script that I edited for Assignment 06 asks if users want to add data to their text file, remove data from the text file, save the data, or close the program.

Figure 1 shows the code added that will add data to the dictionary rows. Figure 2 shows the code added to remove data from the table. Figure 3 shows the code added to save to the to-do list.

```python
@staticmethod
def add_data_to_list(task, priority, list_of_rows):
    """ Adds data to a list of dictionary rows

    :param task: (string) with name of task:
    :param priority: (string) with name of priority:
    :param list_of_rows: (list) you want filled with file data:
    :return: (list) of dictionary rows
    """
    row = {"Task": str(task).strip(), "Priority": str(priority).strip()}
    # TODO: ADD CODE HERE!
    list_of_rows.append(row)
    return list_of_rows
```

FIGURE 1

```python
@staticmethod
def remove_data_from_list(task, list_of_rows):
    """ Removes data from a list of dictionary rows

    :param task: (string) with name of task:
    :param list_of_rows: (list) you want filled with file data:
    :return: (list) of dictionary rows
    """
    for row in table_lst:
        if row["Task"] == task:
            list_of_rows.remove(row)
            print(" Task has been removed from the list")  # TODO: Add Code Here!
    return list_of_rows
```

FIGURE 2

```python
    :param file_name: (string) with name of file:
    :param list_of_rows: (list) you want filled with file data:
    :return: (list) of dictionary rows
    """

    for row in table_lst:
        file = open(file_name, "a")
        file.write(row["Task"] + "," + row["Priority"] + "\n")
        file.close()
         # TODO: Add Code Here!
    return list_of_rows
```

FIGURE 3

The script created includes a header file. The header file is used by using the “#” this allows for comments to be added without the user seeing them.

I could not get the program to work in terminal. I used the method described on the website with not luck.

Testing the Program

After writing the script, I ran it and received the results shown in Figure 4 and Figure 5.

```
Which option would you like to perform? [1 to 4] - 1

Enter Task: Homeowork
Enter Priority: High
******* The current tasks ToDo are: *******
Read (Low)
Laundry (Medium)
Homeowork (High)
*****************************************


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


Which option would you like to perform? [1 to 4] - 2

Which task should be removed?Laundry
 Task has been removed from the list
******* The current tasks ToDo are: *******
Read (Low)
Homeowork (High)
*****************************************


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


Which option would you like to perform? [1 to 4] -
```

FIGURE 4

```
Which task should be removed?Laundry
 Task has been removed from the list
******* The current tasks ToDo are: *******
Read (Low)
Homeowork (High)
****************************************


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


Which option would you like to perform? [1 to 4] - 3

Data Saved!
******* The current tasks ToDo are: *******
Read (Low)
Homeowork (High)
****************************************


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


Which option would you like to perform? [1 to 4] - 4

Goodbye!

Process finished with exit code 0
```

FIGURE 5