Chris Boyle
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Introduction to Python
https://github.com/Cjbnavy05/IntroToPrograming-Python

Assignment05

What was learned

In the fifth assignment we learned how to program a script that is a "To Do List" with several functions all were asking for user input, number one was to read the file; number two is the add a new item; number three is to remove existing item; number four is to save the data to the created file "To Do List"; number five is to exit the script. Removing data and saving the data is something that was covered in this assignment.

Lessons learned

One of the biggest things I learned is when you are trying to remove existing data you need to have "lstTable.remove(row)". We also learned how to use the try and except functions they are for error handling. Error handling is something that is needed when you have a true or false argument. Try equals see if something is true, the except is to see if something is false. If true it will continue to run the script if false it will stop and give you an error message.
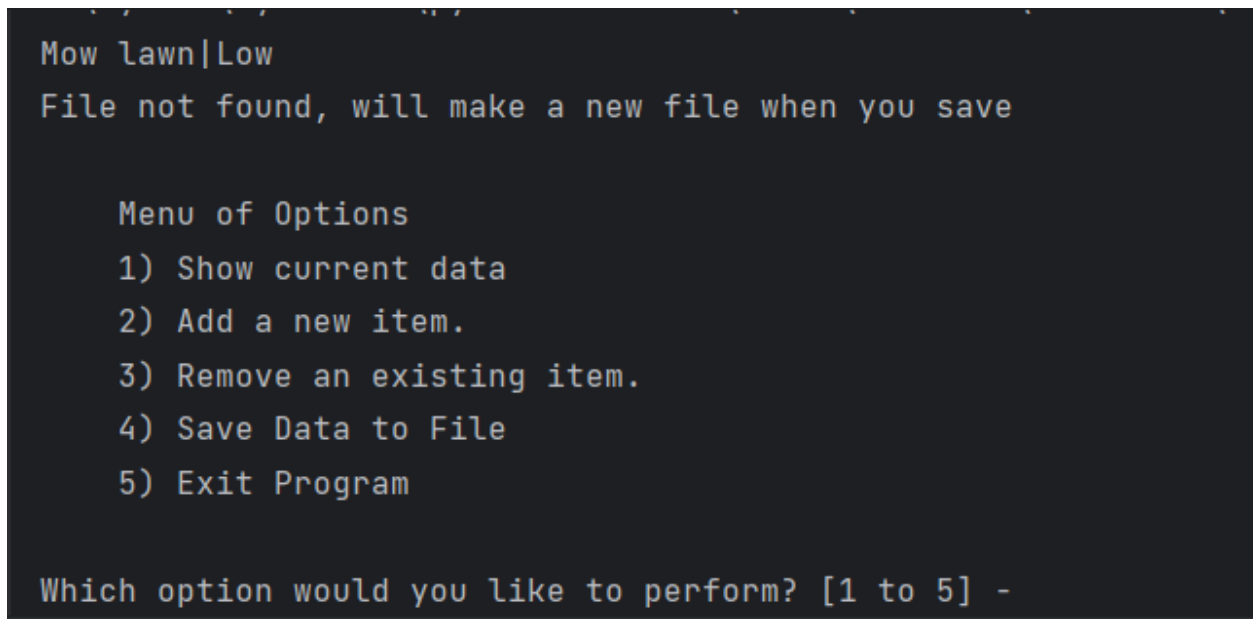
My script

In this script I had it print a Menu of options as you can see below. As you can see below I have put a screen shot of part of the script so you have an idea of what it looks like. One part of code I did find very intresting is the "try/ except" funtion this part of the code make it check if something is true do this if true do this if false do this.

```python
25  # TODO: Add Code Here
26  try:
27      objFile = open("ToDoList.txt", "r")
28
29      for row in objFile:
30          lstRow = row.split(",")
31          dicRow = {"Task": lstRow[0], "Priority": lstRow[1]}
32          lstTable.append(dicRow)
33          print(lstRow[0] + '|' + lstRow[1].strip())
34      objFile.close()
35  except:
36      print('File not found, will make a new when you save')
37
38  objFile = open("ToDoList.txt", 'r')
39  row = objFile.readline()
40
41  # -- Input/Output -- #
42  # Step 2 - Display a menu of choices to the user
43  while (True):
44      print("""
45      Menu of Options
46      1) Show current data
47      2) Add a new item.
48      3) Remove an existing item.
49      4) Save Data to File
50      5) Exit Program
51      """)
52      strChoice = str(input("Which option would you like to perform? [1 to 5] - "))
53      print()  # adding a new line for looks
54      # Step 3 - Show the current items in the table
55      if (strChoice.strip() == '1'):
```

Fig. 1 sample of my code

Running the script
When I ran the script for the first time after I had it all put to geather ther were I thought were sevrail issues that need to be fixed at first I could not get the list to show up once I input the # 1 in but after re looking at my screen and scrolwing up I found it witch was something that I was not thinking about. The second thing was I forgot to use the apend function instead of the read function for option # 4. After fixing that issue everything came together and worked for me.

```
Mow lawn|Low
File not found, will make a new file when you save


    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] -
```
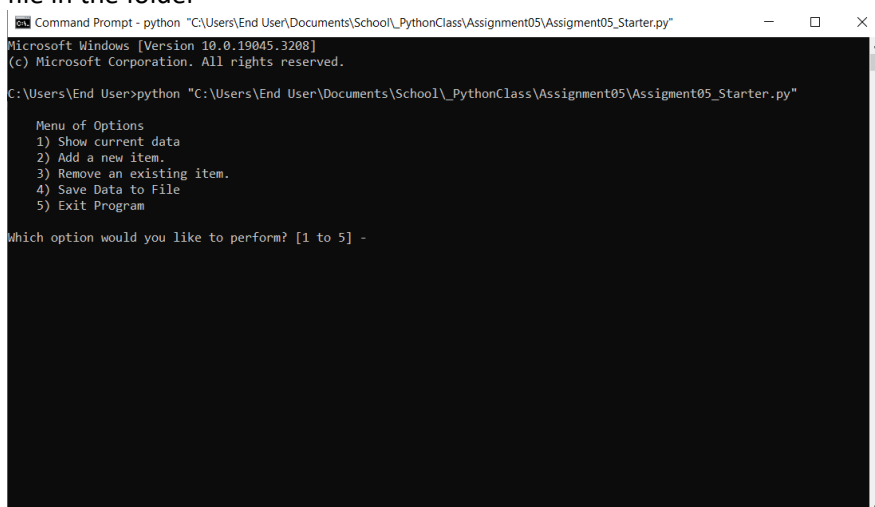
Fig. 2 script running in pycharm

Other screen shots
I have added a screen shot of the script running in the command prompt. The last one is showing the .txt file in the folder

```
Command Prompt - python  "C:\Users\End User\Documents\School\_PythonClass\Assignment05\Assigment05_Starter.py"        —    □    ×
Microsoft Windows [Version 10.0.19045.3208]
(c) Microsoft Corporation. All rights reserved.

C:\Users\End User>python "C:\Users\End User\Documents\School\_PythonClass\Assignment05\Assigment05_Starter.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] -
```

Fig. 3 script running in CMD

Showing what was created after running the script.

Assigment05_Starter.py	8/7/2023 3:04 PM	JetBrains PyCharm ...	4 KB
ToDoList.txt	8/7/2023 2:42 PM	Text Document	1 KB

Fig. 4 showing it saved in the file