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Python

Assignment 5

**Introduction:**

When the program starts, load the data from ‘ToDoList.txt’ into a python Dictionary. Provide options to add or remove items from the dictionary list, and also saving the table back to the ‘ToDoList.txt’.

**Method:**

Step1:

Loading the data from the txt to a python dictionary using a for loop. The table is created by adding each row together. Then close the file.

Step 2:

Display the menu, this part is already prepared from the starter script.

Step 3:

Using a for loop, take out each row of the table as a list, and then print out the contents of the list.

for lstRow in lstTable:  
 print(lstRow['Task']+","+lstRow['Priority'])

Step 4:

Adding new items to the list through user entry. Start with storing the user entries, and then enter them into a new dictionary with the corresponding key.

strTask=input("Enter the Task: ")  
strPriority=input("Enter the Priority: ")  
dicRow = {"Task":strTask,"Priority":strPriority}

Lastly add the dictionary to the table.

lstTable.append(dicRow)

Step 5:

To remove the item from the table, start with a user input code. I then tried to use a simple if/in code in combination with the for loop, but received syntax error.

#for lstRow in lstTable:  
# if delTask in lstRow:  
# lstTable.remove(lstRow)  
# print("Removed.")

So I did a bit of research and found that by adding range(len()) to the code, it will run the search in the task key, then use if/del to take out the corresponding data.

for lstRow in range(len(lstTable)):  
 if lstTable[lstRow]['Task'] == delTask:  
 del lstTable[lstRow]  
 print("Removed.")

Step 6:

To store the table back to the txt file. The file needs to be opened again in write mode. Then using a for loop, break down each line back into a dictionary and store the values of the key. And lastly close the file.

**Summary:**

The script was designed to load the data from the txt into a python table composed of dictionary from each line. The main frame of the script was already provided in the starter script. The options are scripted to display, add, remove, and save entries for the user.