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Python

Assignment 6

**Introduction:**

To clean up a functioning python script by adding more functions.

**Method:**

Step1:

Make sure that the python script is indeed running normally without bugs. Options 1-6 has been tested with various inputs.

Step2:

To convert the codes in 2 into a function, I start with looking for any inputs needed in the new function. But there’s none. And then I create a new function is IO named EnterNewData

strTask = str(input("What is the task? - ")).strip() # Get task from user  
strPriority = str(input("What is the priority? [high|low] - ")).strip() # Get priority from user  
print() # Add an extra line for looks  
  
dicRow = {"Task": strTask, "Priority": strPriority} # Create a new dictionary row  
lstTable.append(dicRow) # Add the new row to the list/table  
IO.ShowCurrentItemsInList(lstTable) # Show current data in the list/table  
return lstTable

and return the lsttable.

Step3:

Next is to covert choice 3 into a function. I named a new function called RemoveSelectedData. However this function will require an string data strKeyToRemove in order to run

def RemoveSelectedData(strKeyToRemove):  
 *"""ask user for the task to remove, remove if found otherwise return not found* ***:param*** *strKeyToRemove: task to be removed from user* ***:return****: nothing  
 """* intRowNumber = 0 # Create a counter to identify the current dictionary row in the loop  
  
 # Step 3.3.b - Search though the table or rows for a match to the user's input  
 while(intRowNumber < len(lstTable)):  
 if(strKeyToRemove == str(list(dict(lstTable[intRowNumber]).values())[0])): # Search current row column 0  
 del lstTable[intRowNumber] # Delete the row if a match is found  
 blnItemRemoved = True # Set the flag so the loop stops  
 intRowNumber += 1 # Increase counter to get next row

Nothing needs to be return in this function, since this is just a while loop used to remove a selected item in the dictionary.

Step4:

Transfer the code used to write the new data into the txt file into a new function. I named the function WriteListDataToFile under FileProcessor class.

objFile = open(strFileName, "w")  
for dicRow in lstTable: # Write each row of data to the file  
 objFile.write(dicRow["Task"] + "," + dicRow["Priority"] + "\n")  
objFile.close()

**Summary:**

The main body of the script was condensed with three new functions. This makes the code more readable, and each function is commented with description to clarify what it does.