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IT FDN 100 A Au 19: Foundations Of Programming: Python

Module 05

Assignment 05

Due: November 6th by 11:59pm

Step 1

Watched Intro To Python Mod05 Video and played along with Labs practicing the elements of python as described by Randal.

Step 2

Read book sections from Chapter 5

Step 3

Reviewed web pages and performed the exercises.

Step 4

Watched the videos….

Step 5

Do the assignment using the starter file… add code to make it work!

Step 6 - Document

> *I pasted the starter file script into a new python file called Assignment 05 in a folder called PythonClass, sub folder Assignment 05.*
>
> *Using many of the techniques discussed in this week's module video, I was able to piece together the steps as outlined in the starter file.*
>
> *The first step was creating a .txt file with tasks and priorities. I wrestled with how best to deal with the 2 items. I ended up not using a comma as it delivered multiple commas in the secondary file delivered at the end…. Would like to know how to get around this.*
>
> *Once the .txt file was opened, the rows in the file were split into list(s) and then converted to dictionary items.*
>
> *The next step involved displaying the items in the .txt file to the user as a "table." Asking the user to add additional rows to the list (step 2) was pretty straightforward. Step 3 was quite a bit more challenging figuring out how to remove an item from the dictionary. I started by displaying just the "task" items and then asking the user to pick one to delete. That input*

variable then became the item to use the .remove function to delete it from the dictionary. I then suggested the user choose menu item 1 to view the new contents of the dictionary.

Step 4 and 5 were pretty straightforward in saving the new items to the .txt file and then closing the program when the user types exit.

All in all, there was a lot of trial and error to make this work, and still lots of holes in terms of functionality.

Screen shots of code in action below.

FIGURE 1

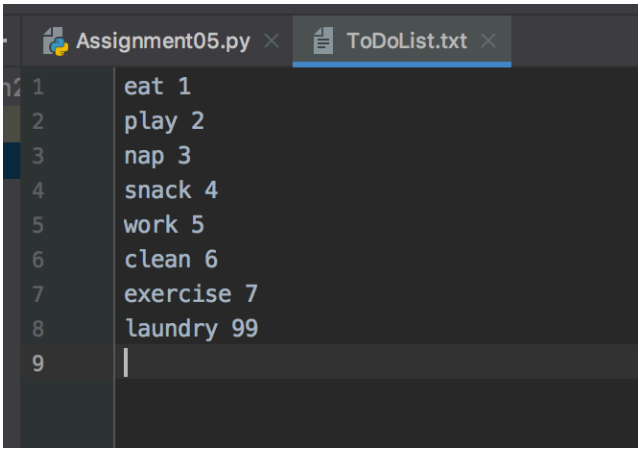
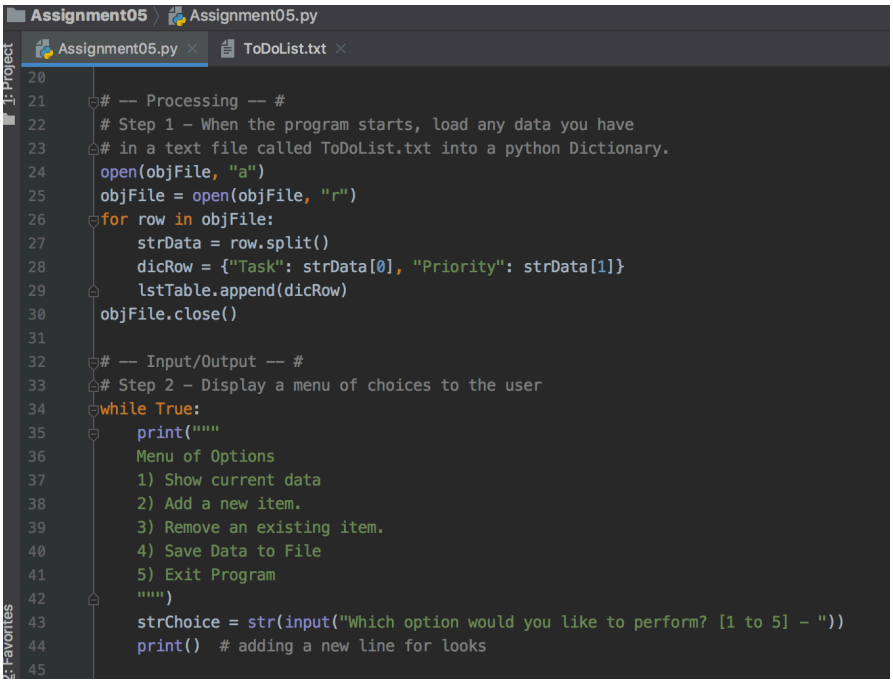
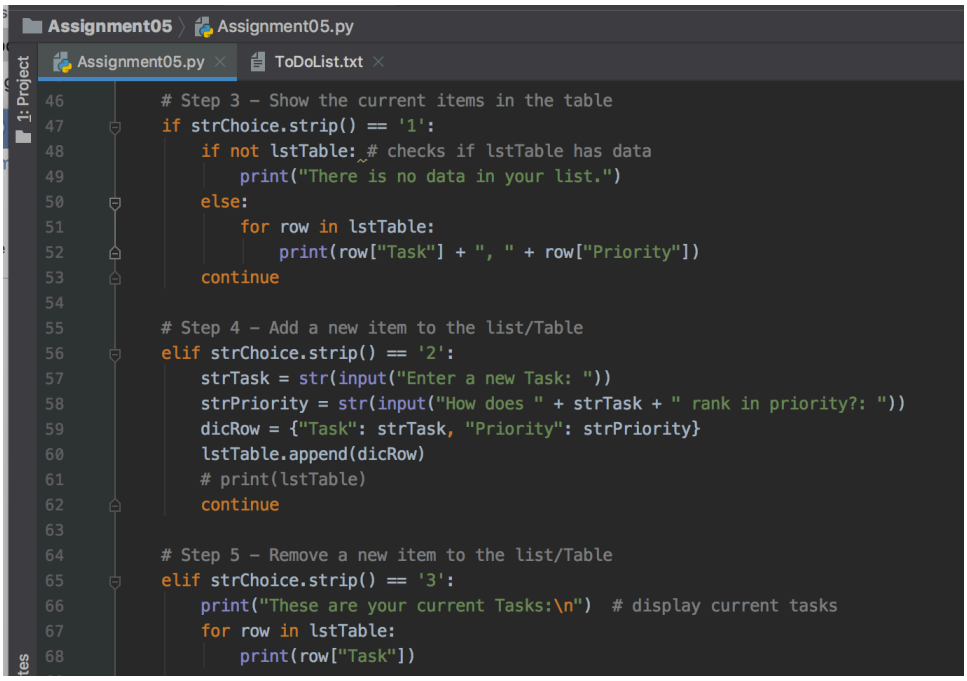
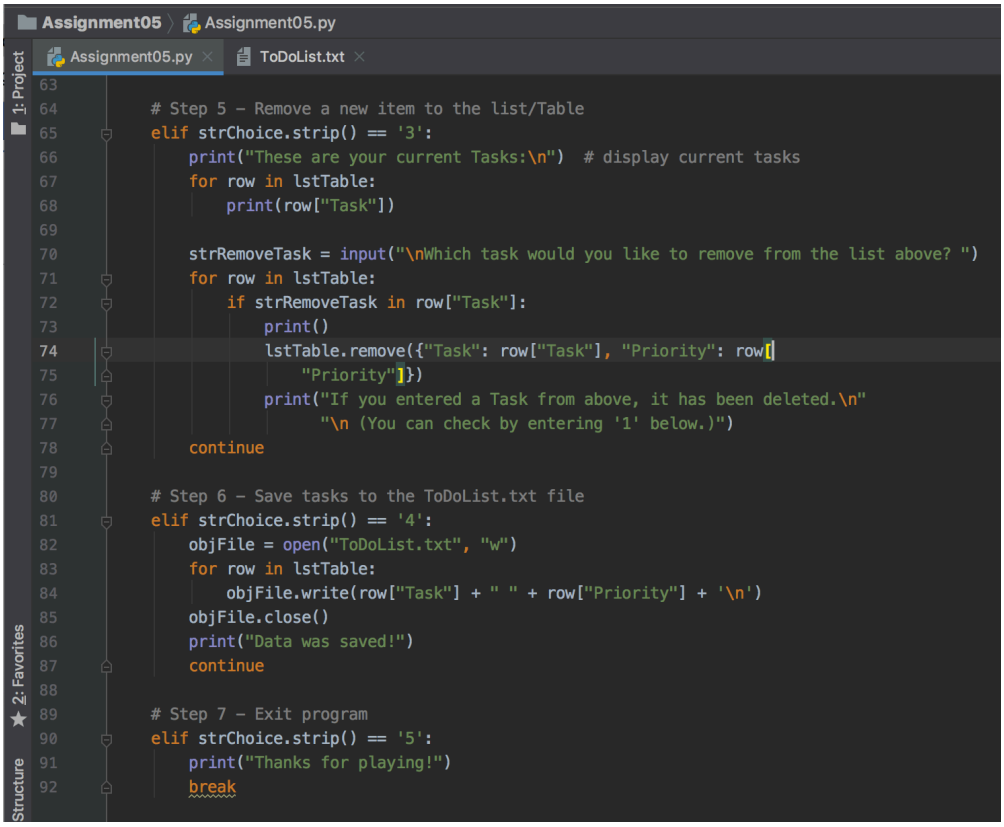


FIGURE 2




Assignment05 〉 Assignment05.py
Assignment05.py
ToDoList.txt
1: Project
# Step 3 - Show the current items in the table
if strChoice.strip() == '1':
if not lstTable:# checks if lstTable has data
print("There is no data in your list.")
else:
for row in lstTable:
print(row["Task"] + ", " + row["Priority"])
continue
# Step 4 - Add a new item to the list/Table
elif strChoice.strip() == '2':
strTask = str(input("Enter a new Task: "))
strPriority = str(input("How does " + strTask + " rank in priority?: "))
dicRow = {"Task": strTask, "Priority": strPriority}
lstTable.append(dicRow)
# print(lstTable)
continue
# Step 5 - Remove a new item to the list/Table
elif strChoice.strip() == '3':
print("These are your current Tasks:\n") # display current tasks
for row in lstTable:
print(row["Task"])


Assignment05 〉 Assignment05.py
Assignment05.py
ToDoList.txt
1: Project
# Step 5 - Remove a new item to the list/Table
elif strChoice.strip() == '3':
print("These are your current Tasks:\n") # display current tasks
for row in lstTable:
print(row["Task"])
strRemoveTask = input("\nWhich task would you like to remove from the list above? ")
for row in lstTable:
if strRemoveTask in row["Task"]:
print()
lstTable.remove({"Task": row["Task"], "Priority": row[
"Priority"]})
print("If you entered a Task from above, it has been deleted.\n"
"\n (You can check by entering '1' below.)")
continue
# Step 6 - Save tasks to the ToDoList.txt file
elif strChoice.strip() == '4':
objFile = open("ToDoList.txt", "w")
for row in lstTable:
objFile.write(row["Task"] + " " + row["Priority"] + '\n')
objFile.close()
print("Data was saved!")
continue
# Step 7 - Exit program
elif strChoice.strip() == '5':
print("Thanks for playing!")
break
2: Favorites
Structure