

There are two rows of data in ToDoList.txt file

The screenshot shows the PyCharm IDE interface. A file explorer window is open, displaying the contents of the 'Module05' directory. The 'ToDoList' file is selected. A Notepad window is open, showing the contents of the 'ToDoList' file, which contains two lines of text: 'Grant writing,high' and 'Manuscript,high'.

File Explorer Path: This PC > OSDisk (C:) > Users > tpeng > PycharmProjects > FDN_class2021 > Module05

Name	Date modified	Type	Size
_Mod5PythonProgrammingNotes	4/19/2021 2:25 PM	Microsoft Word Doc...	1,382 KB
Assignment05	5/4/2021 10:08 PM	JetBrains PyCharm C...	4 KB
Assignment05	4/19/2021 2:25 PM	Microsoft Word Doc...	323 KB
FDN_assignment05_documenting	5/7/2021 8:34 AM	Microsoft Word Doc...	16 KB
Lab5-1-Starter	4/24/2021 5:44 PM	JetBrains PyCharm C...	2 KB
Lab5-2-Starter	4/19/2021 2:25 PM	JetBrains PyCharm C...	2 KB
Mod05Listings	4/19/2021 2:25 PM	Compressed (zipped)...	2,475 KB
Test1	5/2/2021 8:41 PM	JetBrains PyCharm C...	1 KB
Test2	5/4/2021 9:53 PM	JetBrains PyCharm C...	3 KB
ToDoList	5/4/2021 10:10 PM	Text Document	1 KB

Notepad Content:

```
Grant writing,high
Manuscript,high
```

PyCharm Status Bar: 28:28 CRLF UTF-8 4 spaces Python 3.9

Execute option 1

The screenshot shows the PyCharm IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The current file is 'Assignment05.py' in the 'Module05' directory. The left sidebar shows the project structure with folders 'Module02', 'Module03', 'Module04', 'Module05', and 'venv'. The main editor displays the code for 'Assignment05.py'.

```
42 strChoice = str(input("Which option would you like to perform? [1 to 5] - "))
43 print() # adding a new line for looks
44 # Step 3 - Show the current items in the table
45 if (strChoice.strip() == '1'):
46     print("Here are the current data:", "\n")
47     for objRow in lstTable:
48         print(objRow)
49 # Step 4 - Add a new item to the list/Table
50 elif (strChoice.strip() == '2'):
51     strID = str(input("Enter a task: "))
52     strName = str(input("Enter priority: "))
53     dicRow = {"Task": strID, "Priority": strName}
54     lstTable.append(dicRow)
55 # Step 5 - Remove a new item from the list/Table
56 elif (strChoice.strip() == '3'):
57     task to remove = str(input("Enter the name of a task you like to remove: "))
```

The 'Run' console at the bottom shows the output of the program:

```
Which option would you like to perform? [1 to 5] - 1
Here are the current data:
{'Task': 'Grant writing', 'Priority': 'high'}
{'Task': 'Manuscript', 'Priority': 'high'}
```

The bottom status bar indicates the current settings: 24:52, CRLF, UTF-8, 4 spaces, Python 3.9. The PyCharm version is 2021.1.1, and it's available for update (4 minutes ago). The system tray shows the date and time: 2:42 PM, 5/7/2021.

Execute option 2: added a row of {Task: fishing, Priority:low}

The screenshot shows an IDE window with the following components:

- Project Explorer:** Shows a project structure with folders `Module02`, `Module03`, `Module04`, `Module05`, and `venv`.
- Code Editor:** Displays the file `Assignment05.py`. The code is as follows:

```
# Step 4 - Add a new item to the list/Table
elif (strChoice.strip() == '2'):
    strID = str(input("Enter a task: "))
    strName = str(input("Enter priority: "))
    dicRow = {"Task": strID, "Priority": strName}
    lstTable.append(dicRow)
    print("Here is the current data in lstTable:")
    for objRow in lstTable:
        print(objRow)
```
- Run Console:** Shows the execution output:

```
Which option would you like to perform? [1 to 5] - 2
Enter a task: Fishing
Enter priority: low
Here is the current data in lstTable:
{'Task': 'Grant writing', 'Priority': 'high'}
{'Task': 'Manuscript', 'Priority': 'high'}
{'Task': 'Fishing', 'Priority': 'low'}

Menu of Options
1) Show current data
2) Add a new item.
3) Remove an existing item
```
- Status Bar:** Shows the file encoding as UTF-8, 4 spaces indentation, and Python 3.9.



ENG

2:50 PM
5/7/2021



Execute option 3: removed the row of {Task: Manuscript, Priority: high}

The screenshot displays an IDE window with the file `Assignment05.py` open. The code is part of a program that manages a task list. The visible code snippet is as follows:

```
59 elif (strChoice.strip() == '3'):
60     task_to_remove = str(input("Enter the name of a task you like to remove: "))
61     for dicRow in lstTable:
62         if (dicRow["Task"] == task_to_remove):
63             lstTable.remove(dicRow)
64         else:
65             print("dicRow NOT found")
66     print("The task of", task_to_remove, "removed")
67     print("The current lstTable is: ", "\n", lstTable)
```

The Run console at the bottom shows the execution flow:

```
Which option would you like to perform? [1 to 5] - 3
Enter the name of a task you like to remove: Manuscript
dicRow NOT found
The task of Manuscript removed
The current table is:
[{'Task': 'Grant writing', 'Priority': 'high'}, {'Task': 'Fishing', 'Priority': 'low'}]

Menu of Options
1) Show current data
2) Add a new item.
3) Remove an existing item.
```

The status bar at the bottom indicates the file is encoded in UTF-8 with 4 spaces, using Python 3.9. The system clock shows Friday, May 7, 2021, at 2:52 PM.

Execute option 4: save the current lstTable back to the file: ToDoList.txt

The screenshot displays a Python IDE with a project named 'FDN_class2021' and a file named 'Assignment05.py'. The code in the editor is as follows:

```
65 print("dicRow NOT found")
66 print("The task of", task_to_rm, "removed")
67 print("The current lstTable is: ", "\n", lstTable)
68 # Step 6 - Save tasks to the ToDoList.txt file
69 elif (strChoice.strip() == '4'):
70     objFile = open(File, "w")
71     for dicRow in lstTable:
72         objFile.write(str(dicRow["Task"]) + "," + str(dicRow["Priority"]) + "\n")
73     objFile.close()
74     print("The current data are saved in ToDoList.txt")
75 # Step 7 - Exit program
76 elif (strChoice.strip() == '5'):
77     break # and Exit the program
78
```

The 'Run' console at the bottom shows the following output:

```
4) Save Data to File
5) Exit Program

Which option would you like to perform? [1 to 5] - 4

The current data are saved in ToDoList.txt

Menu of Options
```

A Notepad window titled 'ToDoList - Notepad' is open, showing the content of the saved file:

```
File Edit Format View Help
Grant writing,high
Fishing,low
```

The Windows taskbar at the bottom shows the system clock as 2:57 PM on 5/7/2021.