Nikita Daharia

May 17, 2022

Foundations of Programming: Python

Assignment 05

[GutHubURL](#)

Working with Dictionaries:

Introduction:

This paper aims to demonstrate the steps I undertook to create a python script that enables a user to modify a new script that manages a "ToDo list". The latest version of PyCharm Community version is used for this assignment on a Mac OS.
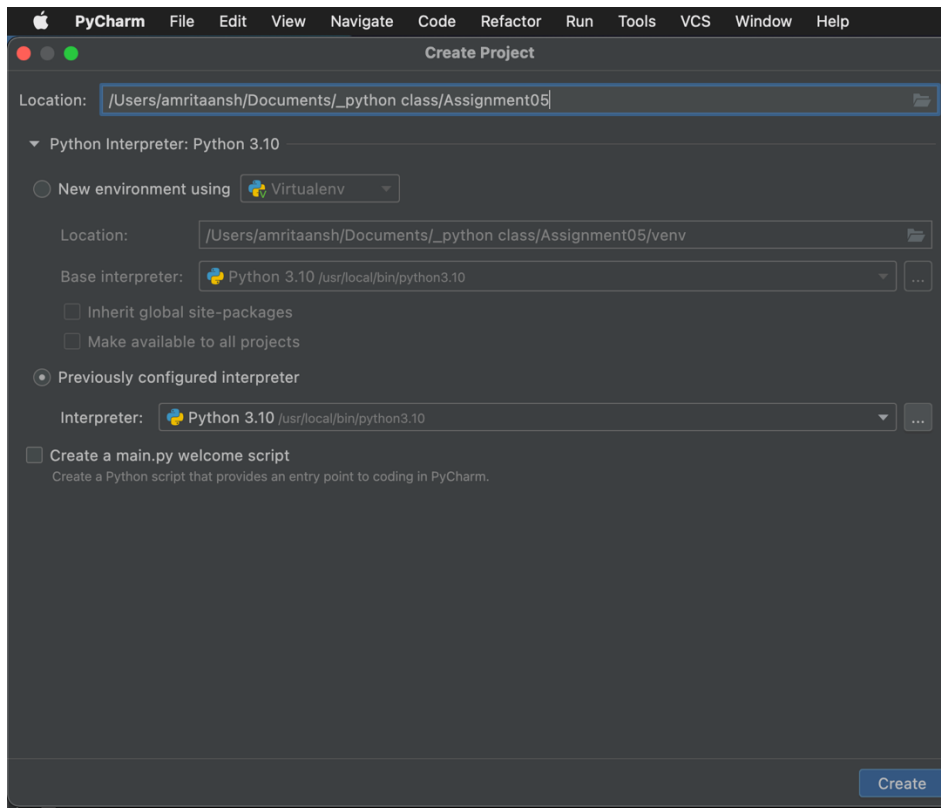
Writing the python script and output:

Create a new sub-folder called Assignment05 inside of the _PythonClass folder (you created in Module 01) in the Documents folder on a Mac OS.
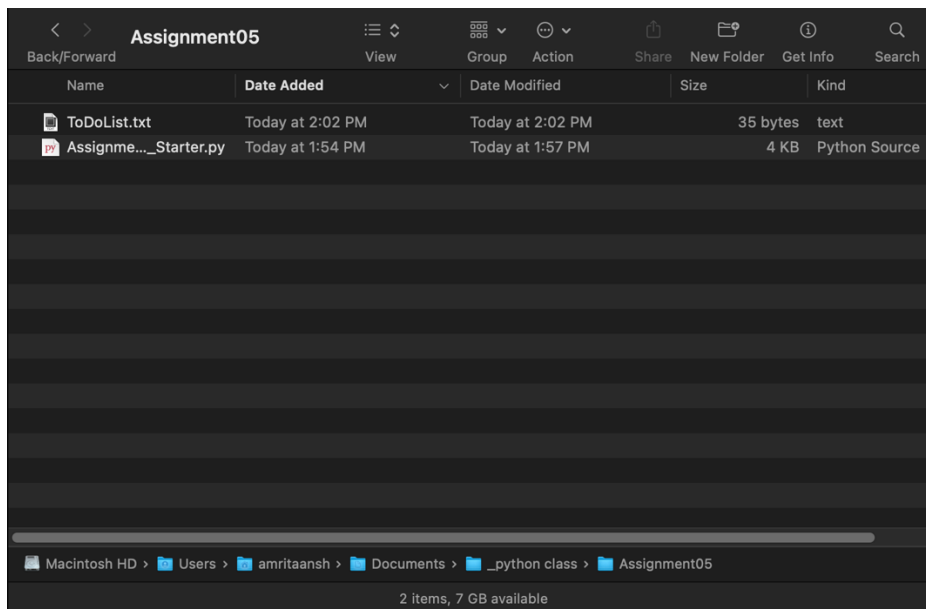
Figure 1. Assignment05 saved as a subfolder inside the folder _PythonClass in Documents.

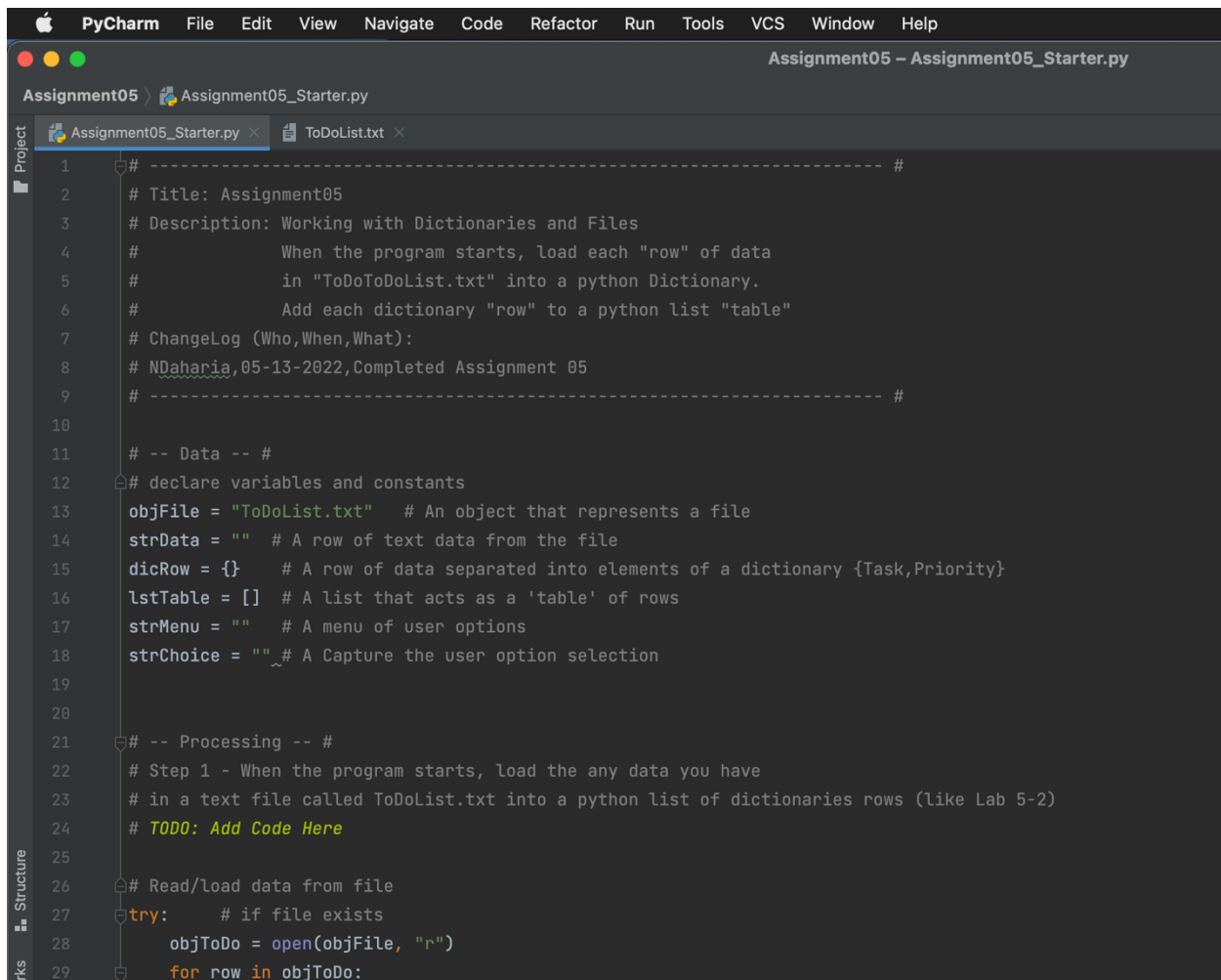Create a new project in PyCharm that uses the _PythonClass\Assignment05 folder as its location.

Figure 2. Creation of a new project in PyCharm

Modify the Python Script provided "Assignment05_Starter.py". The starter script already provides us with 5 options for the menu. Add code to the Script that enables a user to modify a new script that manages a "ToDo list." The "ToDo" file will contain two columns of data, "Task" and "Priority." The columns will be loaded into a Python Dictionary object. Each dictionary object represents one row of data, and these rows must be added to a Python List object to create a table of data.

Choosing strChoice.strip() == 1, if it is true, then it runs for a loop through the list 1sTable. For each row in the table, it prints out the first and second value from the dictionary row. If strChoice.strip() == 2, the user can choose to add a task and the priority of this task. If strChoice.strip() == 3, the user is choosing to remove an existing
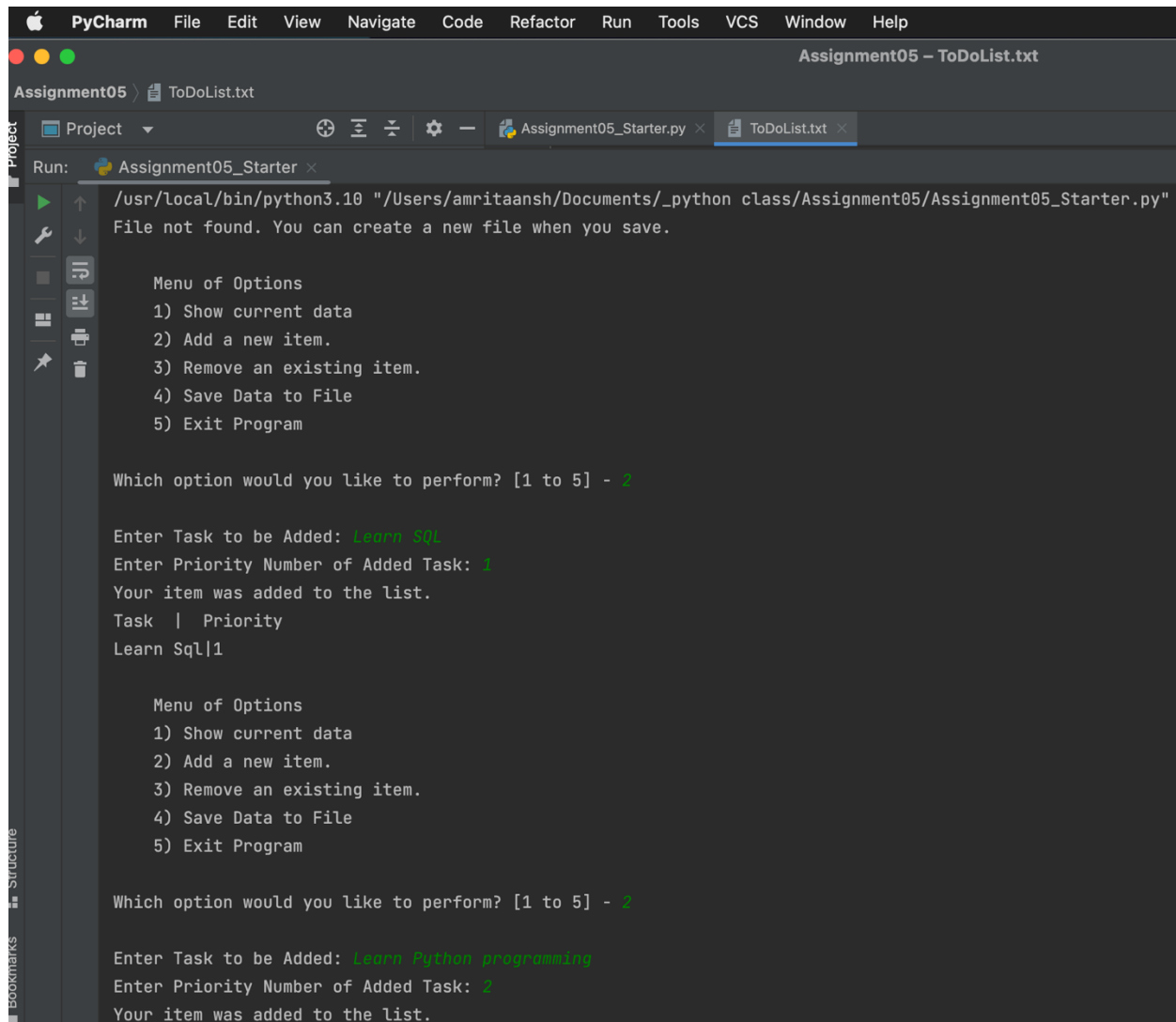
row from the table. Using strChoice.strip() == 4, the user can save this data after they are done will making all the changes. Lastly, strChoice.strip() == 5, the user can exit the program.

Figure 3. Snippet of the python script Assignment05_Starter.py

Run the Script by right clicking on the file and choosing Run.

Figure 4. Snippet of output displayed in PyCharm Shell after running the python script.

Run the script on the Terminal window

Figure 5. Output displayed in Terminal window after running the python script.

Verify that it code worked by locating the text file and opening it in a text editor.
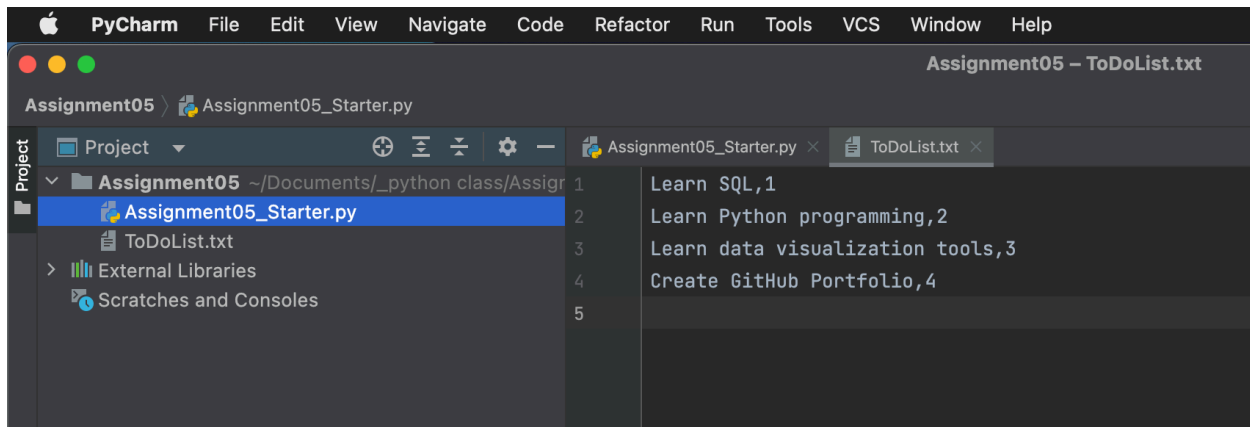
Figure 6. ToDoList.txt Window updated the saved value of toaster as entered by the user.

Summary:

Python is a simple yet powerful language programming language that runs on Windows, Linus/Unix, and Mac OS. I used PyCharm to create a python script that script that enables a user to modify a new script that manages a "ToDo list". The script was run both in PyCharm and Terminal . Finally, the code was verified by locating the ToDoList.txt text file and opening it in a text editor and it successfully updated the list saved by the user.