Name: Rohini Dattatray Nawale

Date: 17/05/2023

Course: Introduction to Python Programming

Assignment 05

Creating A Python Script

Introduction:

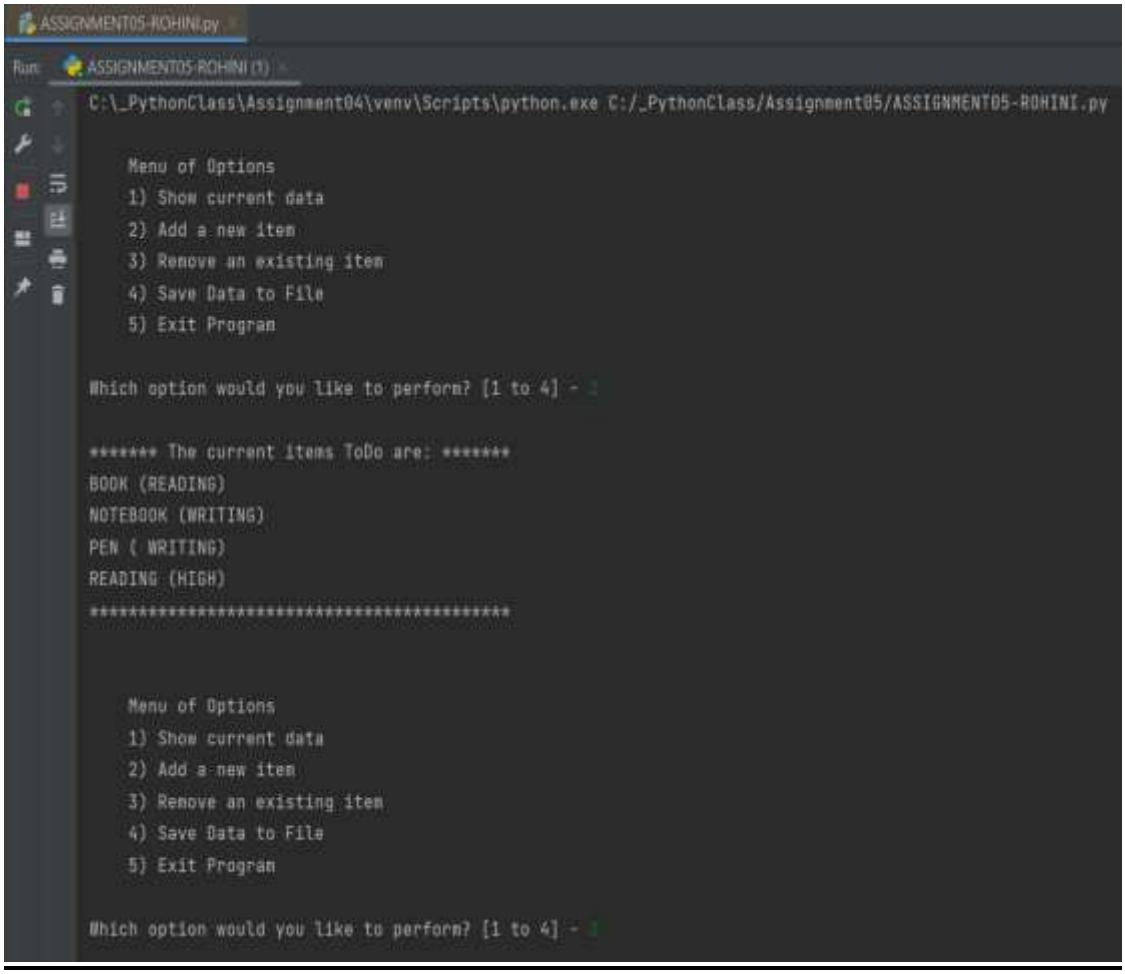
In this activity, I have will learnt to work with Lists and Dictionaries by creating a script and documenting knowledge.

1. The code initializes the necessary variables, including the file name (***objFileName)*** and an empty list to store tasks and priorities ***(lstTable).***
2. The code uses a with statement to open the file specified by ***objFileName*** in read mode and reads each line of the file. For each line, it splits the line using a comma as the delimiter and extracts the task and priority. The task and priority are used to create a dictionary representing a row of data, which is then appended to the ***lstTable*** list.
3. The code enters a while loop to display the menu and prompt the user for their choice.
4. If the user selects ***option '1'***, the code checks if lstTable is empty. If it is, it displays a message indicating that no tasks are found. Otherwise, it iterates over each row in lstTable and prints the task and priority.
5. If the user selects ***option '2'***, the code prompts the user to enter the task and priority. The input is stripped of leading and trailing whitespace and then added as a dictionary to lstTable. A success message is printed.
6. If the user selects ***option '3'***, the code prompts the user to enter the task they want to remove. It iterates over each row in lstTable and checks if the task matches the user input. If a match is found, the row is removed from lstTable, and a success message is printed. If no match is found, a message indicating that the task was not found is printed.
7. If the user selects ***option '4'***, the code checks if lstTable is empty. If it is, a message is displayed indicating that there are no tasks to save. Otherwise, it opens the file specified by objFileName in write mode and iterates over each row in lstTable. It writes the task and priority to the file, separated by a comma. Once all rows are written, a success message is printed.
8. If the user selects ***option '5'***, the code prints an exit message and breaks out of the while loop, terminating the program.
9. If the user selects an invalid option, the code displays a message indicating that the choice is invalid and prompts the user to try again.
10. After each action, an extra line is printed for better readability.

**Script file has attached

- **Output of Assignment 04 Python Program**

Figure 01: OUTPUT inventory, making curry types &details



```
What is the task? - Reading
What is the priority? [high|low] - low
Task added successfully.


    Menu of Options
    1) Show current data
    2) Add a new item
    3) Remove an existing item
    4) Save Data to File
    5) Exit Program

Which option would you like to perform? [1 to 4] - 3

Which TASK would you like removed? - PEN
The task was removed.


    Menu of Options
    1) Show current data
    2) Add a new item
    3) Remove an existing item
    4) Save Data to File
    5) Exit Program

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

Data saved to file.
```

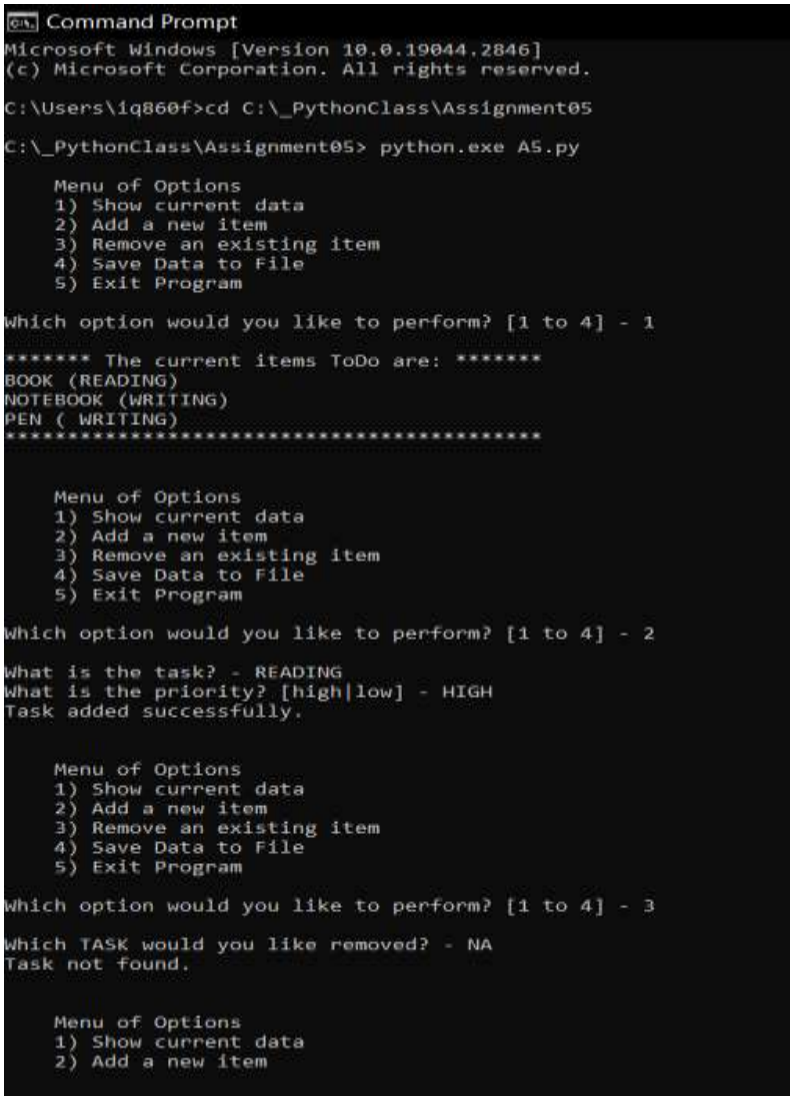
```
    Menu of Options
    1) Show current data
    2) Add a new item
    3) Remove an existing item
    4) Save Data to File
    5) Exit Program

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

Exiting the program...

Process finished with exit code 0
```

Figure 02: OUTPUT IN CMD



- **Summary:**

The code is a menu-driven program that allows users to manage tasks and priorities. It loads data from a file, displays a menu of options, and performs actions such as showing tasks, adding new tasks, removing tasks, saving tasks to a file, and exiting the program.

Note** `C:\Users\iq860f\` -**iq860** is my system ID. Thanks.!