

Documentation

To-Do List Program

This is a command-line based To-Do list program written in Python that allows users to add tasks, display the list of tasks, mark tasks as completed, and exit the application.

Features

1. **Add Task:**
 - Allows the user to input multiple tasks and add them to the task list.
 - Each task is stored in a dictionary with a task key (string) and a done key (boolean).
 2. **Show Tasks:**
 - Displays all tasks in the current list with their respective statuses (Done or Not Done).
 3. **Mark Task as Done:**
 - Allows the user to mark a specific task as completed by entering the task's number from the list.
 4. **Exit:**
 - Exits the program.
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Program Structure

- **tasks:** A list to store tasks. Each task is stored as a dictionary with the following keys:
 - task (str): The task description.
 - done (bool): A boolean indicating if the task is completed.
 - **Main Functions:**
 - **main():** The main function contains an infinite loop to display the menu options and process the user's input accordingly.
 - **Choice Options:**
 1. **Add Task:** Prompts the user to input how many tasks they wish to add. Each task is appended to the tasks list as a dictionary.
 2. **Show Tasks:** Displays the list of tasks with their status (Done/Not Done).
 3. **Mark Task as Done:** Allows the user to mark a specific task as done by entering its index.
 4. **Exit:** Ends the program when selected.
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How to Run

1. Make sure you have Python installed (Python 3.x recommended).
2. Clone or download this repository.
3. Open a terminal and navigate to the directory containing the program file.
4. Run the program with the following command:

bash

Copy code

```
python todo.py
```

Improvements/Future Work

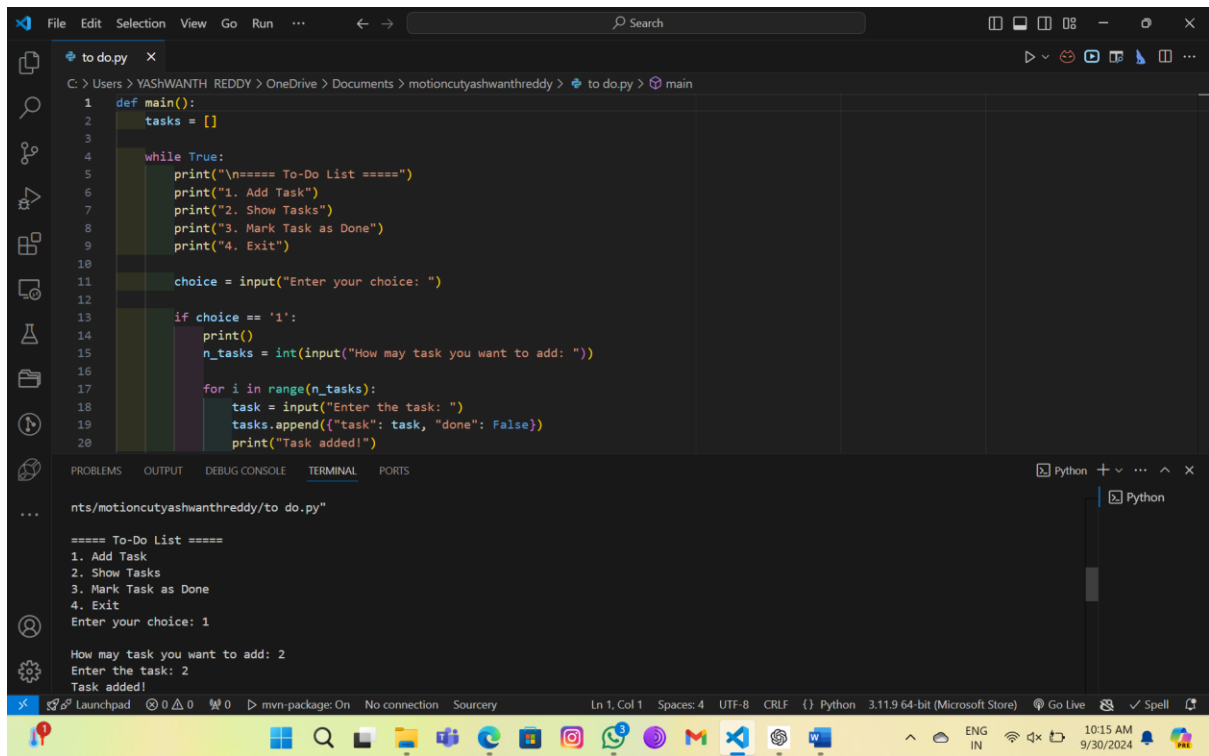
- Add a feature to delete tasks.
 - Persist tasks by saving to a file (JSON or text) to keep tasks between sessions.
 - Add a user-friendly interface using a GUI library like Tkinter or a web framework like Flask.
-

Error Handling

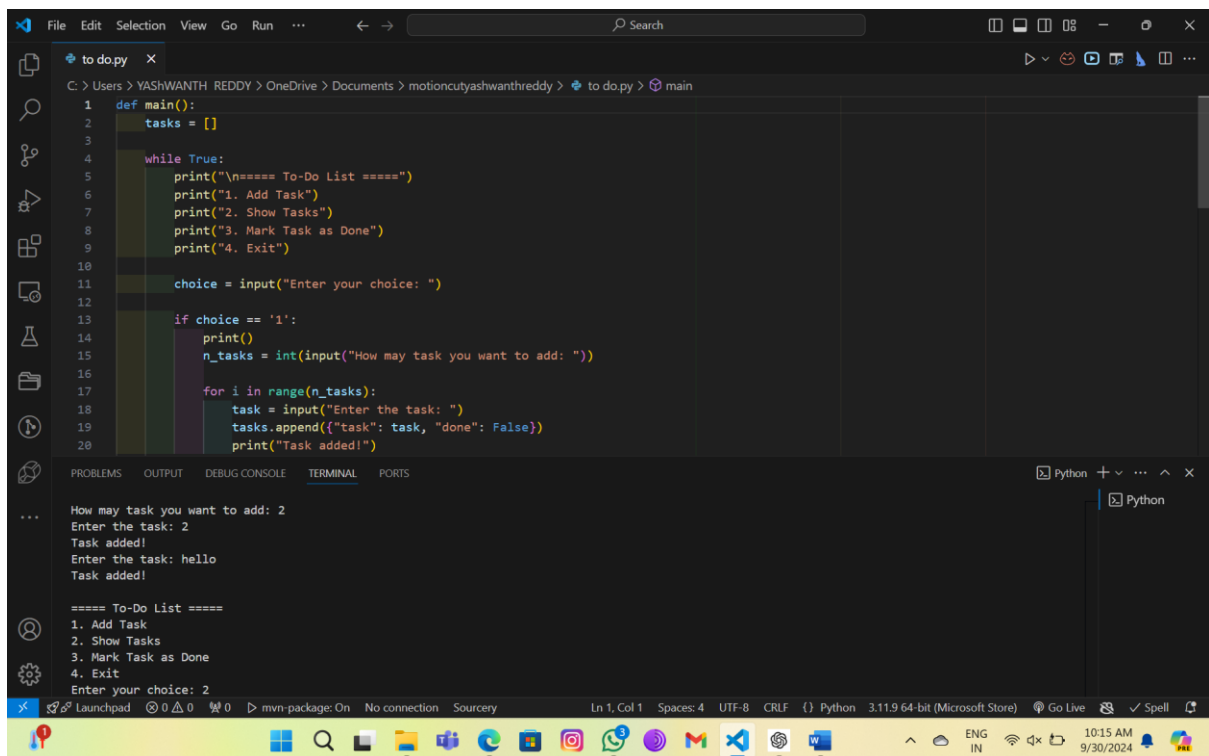
- The program handles invalid task numbers when marking tasks as done.
 - It ensures the user selects valid options from the menu by displaying an error message for invalid input.
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License

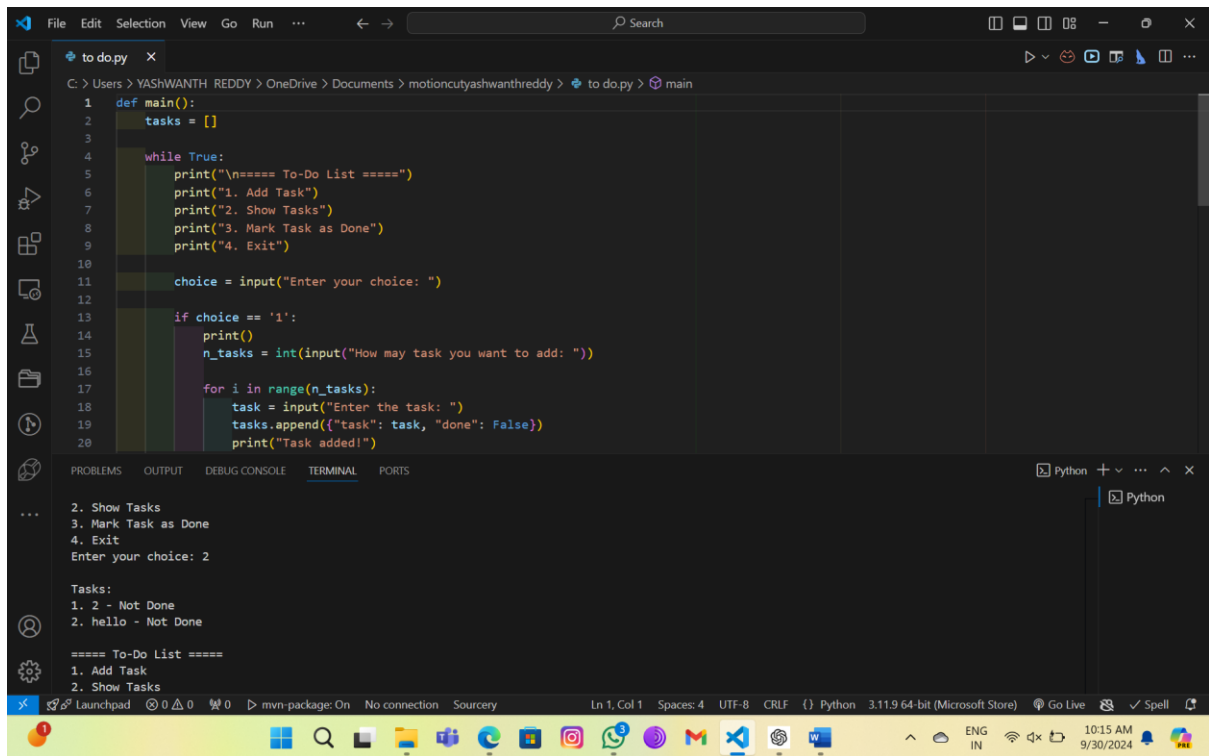
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```
File Edit Selection View Go Run ... Search
to do.py X
C:\Users\YASHWANTH REDDY> OneDrive\Documents> motioncutyashwanthreddy> to do.py main
1 def main():
2     tasks = []
3
4     while True:
5         print("\n===== To-Do List =====")
6         print("1. Add Task")
7         print("2. Show Tasks")
8         print("3. Mark Task as Done")
9         print("4. Exit")
10
11        choice = input("Enter your choice: ")
12
13        if choice == '1':
14            print()
15            n_tasks = int(input("How may task you want to add: "))
16
17            for i in range(n_tasks):
18                task = input("Enter the task: ")
19                tasks.append({"task": task, "done": False})
20                print("Task added!")
21
22        ...
23
24        nts/motioncutyashwanthreddy/to do.py"
25
26        ===== To-Do List =====
27        1. Add Task
28        2. Show Tasks
29        3. Mark Task as Done
30        4. Exit
31        Enter your choice: 1
32
33        How may task you want to add: 2
34        Enter the task: 2
35        Task added!
```



```
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13        if choice == '1':
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16
17            for i in range(n_tasks):
18                task = input("Enter the task: ")
19                tasks.append({"task": task, "done": False})
20                print("Task added!")
21
22        ...
23
24        How may task you want to add: 2
25        Enter the task: 2
26        Task added!
27        Enter the task: hello
28        Task added!
29
30        ===== To-Do List =====
31        1. Add Task
32        2. Show Tasks
33        3. Mark Task as Done
34        4. Exit
35        Enter your choice: 2
```

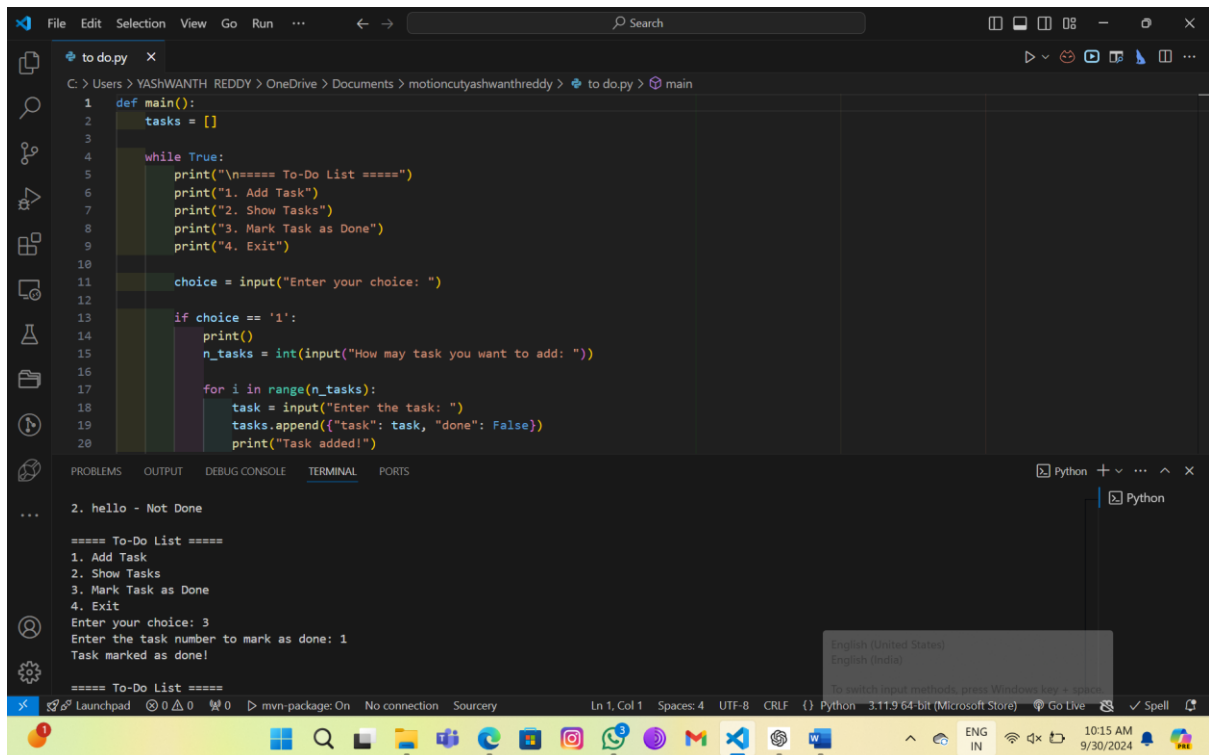


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20                print("Task added!")
```

2. Show Tasks
3. Mark Task as Done
4. Exit
Enter your choice: 2

Tasks:
1. 2 - Not Done
2. hello - Not Done

==== To-Do List =====
1. Add Task
2. Show Tasks



```
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20                print("Task added!")
```

2. hello - Not Done

==== To-Do List =====
1. Add Task
2. Show Task
3. Mark Task as Done
4. Exit
Enter your choice: 3
Enter the task number to mark as done: 1
Task marked as done!

==== To-Do List =====

```
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19                tasks.append({"task": task, "done": False})
20                print("Task added!")
21
22        ...
23
24        ===== To-Do List =====
25        1. Add Task
26        2. Show Tasks
27        3. Mark Task as Done
28        4. Exit
29        Enter your choice: 3
30        Enter the task number to mark as done: 1
31        Task marked as done!
32
33        ===== To-Do List =====
34
35        ...
36
37        Enter the task number to mark as done: 1
38        Task marked as done!
39
40        ===== To-Do List =====
41        1. Add Task
42        2. Show Tasks
43        3. Mark Task as Done
44        4. Exit
45        Enter your choice: 4
46        Exiting the To-Do List.
```

```
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22        ...
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24        ===== To-Do List =====
25        1. Add Task
26        2. Show Tasks
27        3. Mark Task as Done
28        4. Exit
29        Enter your choice: 4
30        Exiting the To-Do List.
```