8/10/25, 9:06 AM Tasks1.py

Tasks1.py

```
1
    import json
 2
    import os
 3
    TASKS FILE = "tasks.json"
 4
 5
 6
    class ToDoList:
 7
        def __init__(self):
8
            self.tasks = []
            self.load_tasks()
9
10
11
        def load_tasks(self):
            if os.path.exists(TASKS FILE):
12
13
                try:
                    with open(TASKS_FILE, "r") as file:
14
                         self.tasks = json.load(file)
15
                except json.JSONDecodeError:
16
17
                     print("Error: Could not decode tasks file. Starting with an empty list.")
                     self.tasks = []
18
19
            else:
20
                self.tasks = []
21
22
        def save_tasks(self):
23
            try:
                with open(TASKS FILE, "w") as file:
24
                    json.dump(self.tasks, file, indent=4)
25
            except Exception as e:
26
                print(f"Error saving tasks: {e}")
27
28
        def add task(self, task):
29
            if task.strip():
30
31
                self.tasks.append({"task": task.strip(), "completed": False})
                self.save tasks()
32
                print(f" ✓ Added task: {task}")
33
34
            else:
35
                print(" A Task description cannot be empty.")
36
37
        def list_tasks(self):
38
            if not self.tasks:
39
                print(" No tasks found.")
                return
40
            print("\n > To-Do List:")
41
42
            for idx, task in enumerate(self.tasks, 1):
43
                status = "√" if task["completed"] else "X"
                print(f"{idx}. [{status}] {task['task']}")
44
45
        def mark_complete(self, index):
46
            if 0 <= index < len(self.tasks):</pre>
47
                if self.tasks[index]["completed"]:
48
```

print("[] Task is already marked as completed.")

else:

```
self.tasks[index]["completed"] = True
                   self.save tasks()
                   print(f" ✓ Marked task {index + 1} as completed.")
           else:
               print("X Invalid task number.")
       def delete_task(self, index):
           if 0 <= index < len(self.tasks):</pre>
               task = self.tasks.pop(index)
               self.save_tasks()
               print(f" W Deleted task: {task['task']}")
           else:
               print("X Invalid task number.")
   def main():
       todo = ToDoList()
       while True:
           print("\n===== TO-DO LIST MENU =====")
           print("1. + Add Task")
           print("3. ☑ Mark Task as Completed")
           print("4. W Delete Task")
           74
75
           choice = input("Enter your choice (1-5): ").strip()
76
77
           if choice == '1':
78
               task = input("Enter task description: ")
79
               todo.add task(task)
           elif choice == '2':
80
               todo.list_tasks()
81
           elif choice == '3':
82
               todo.list tasks()
83
84
               try:
85
                   index = int(input("Enter task number to mark complete: ")) - 1
                   todo.mark_complete(index)
86
87
               except ValueError:
                   print("X Invalid input. Please enter a number.")
88
           elif choice == '4':
89
               todo.list_tasks()
90
91
               try:
92
                   index = int(input("Enter task number to delete: ")) - 1
93
                   todo.delete task(index)
               except ValueError:
94
                   print("X Invalid input. Please enter a number.")
95
           elif choice == '5':
96
               print(" doodbye!")
97
98
               break
```