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import os
import json

FILE_NAME = "todo_list.json"

def load_tasks():
    if os.path.exists(FILE_NAME):
        with open(FILE_NAME, "r") as file:
            return json.load(file)
    return []

def save_tasks(tasks):
    with open(FILE_NAME, "w") as file:
        json.dump(tasks, file)

def show_tasks(tasks):
    if not tasks:
        print("No tasks in the list.")
    else:
        for i, task in enumerate(tasks, 1):
            status = "✔" if task['completed'] else "❌"
            print(f"{i}. {task['task']} [{status}]")

def add_task(tasks):
    task = input("Enter task: ")
    tasks.append({'task': task, 'completed': False})
    print("Task added!")

def mark_done(tasks):
    show_tasks(tasks)
    try:
        index = int(input("Enter task number to mark as done: ")) - 1
        tasks[index]['completed'] = True
        print("Marked as completed.")
    except (ValueError, IndexError):
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        print("Invalid input.")


def delete_task(tasks):
    show_tasks(tasks)
    try:
        index = int(input("Enter task number to delete: ")) - 1
        removed = tasks.pop(index)
        print(f"Deleted task: {removed['task']}")
    except (ValueError, IndexError):
        print("Invalid input.")


def main():
tasks = load_tasks()


while True:
    print("\n--- TO-DO LIST MENU ---")
    print("1. View Tasks")
    print("2. Add Task")
    print("3. Mark Task as Completed")
    print("4. Delete Task")
    print("5. Exit")


    choice = input("Enter your choice: ")
    if choice == "1":
        show_tasks(tasks)
elif choice == "2":
    add_task(tasks)
elif choice == "3":
    mark_done(tasks)
elif choice == "4":
    delete_task(tasks)
elif choice == "5":
    save_tasks(tasks)
    print("Goodbye!")
    break
else:
    print("Invalid choice.")
```

```
if __name__ == "__main__":
    main()
```