

TO-DO LIST

CODE:

```
import json
```

```
import os
```

```
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, indent=4)
```

```
def show_tasks(tasks):
```

```
    if not tasks:
```

```
        print("No tasks found.")
```

```
    return
```

```
    for idx, task in enumerate(tasks, 1):
```

```
        status = "✓" if task['completed'] else "X"
```

```
        print(f"{idx}. [{status}] {task['title']}")
```

```
def add_task(tasks):
```

```
    title = input("Enter task title: ")
```

```
    tasks.append({"title": title, "completed": False})
```

```
    print("Task added.")
```

```
def update_task(tasks):
```

```
    show_tasks(tasks)
```

```
    index = int(input("Enter task number to update: ")) - 1
```

```
    if 0 <= index < len(tasks):
```

```
        tasks[index]["title"] = input("Enter new task title: ")
```

```
        print("Task updated.")
```

```
    else:
```

```
        print("Invalid task number.")
```

```
def mark_complete(tasks):
```

```
    show_tasks(tasks)
```

```
    index = int(input("Enter task number to mark complete: ")) - 1
```

```
    if 0 <= index < len(tasks):
```

```
        tasks[index]["completed"] = True
```

```
        print("Task marked as complete.")
```

```
    else:
```

```
        print("Invalid task number.")
```

```
def delete_task(tasks):
```

```
show_tasks(tasks)

index = int(input("Enter task number to delete: ")) - 1

if 0 <= index < len(tasks):

    removed = tasks.pop(index)

    print(f"Deleted: {removed['title']}")

else:

    print("Invalid task number.")
```

```
def main():

    tasks = load_tasks()

    while True:

        print("\nTo-Do List Menu")

        print("1. View Tasks")

        print("2. Add Task")

        print("3. Update Task")

        print("4. Mark Task Complete")

        print("5. Delete Task")

        print("6. Exit")

        choice = input("Choose an option: ")

        if choice == "1":

            show_tasks(tasks)

        elif choice == "2":

            add_task(tasks)

        elif choice == "3":
```

```
        update_task(tasks)
    elif choice == "4":
        mark_complete(tasks)
    elif choice == "5":
        delete_task(tasks)
    elif choice == "6":
        save_tasks(tasks)
        print("Goodbye!")
        break
    else:
        print("Invalid option. Try again.")

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

OUTPUT:

To-Do List Menu

1. View Tasks
2. Add Task
3. Update Task
4. Mark Task Complete
5. Delete Task
6. Exit

Choose an option: 2

Enter task title: Buy groceries

Task added.

To-Do List Menu

1. View Tasks
2. Add Task
3. Update Task
4. Mark Task Complete
5. Delete Task
6. Exit

Choose an option: 1

1. [**X**] Buy groceries

To-Do List Menu

1. View Tasks
2. Add Task
3. Update Task
4. Mark Task Complete
5. Delete Task
6. Exit

Choose an option: 4

1. [**X**] Buy groceries

Enter task number to mark complete: 1

Task marked as complete.

To-Do List Menu

1. View Tasks
2. Add Task
3. Update Task
4. Mark Task Complete
5. Delete Task
6. Exit

Choose an option: 1

1. [✓] Buy groceries

To-Do List Menu

1. View Tasks
2. Add Task
3. Update Task
4. Mark Task Complete
5. Delete Task
6. Exit

Choose an option: 6

Goodbye!