

```
# Define an empty list to store tasks
```

```
tasks = []
```

```
# Function to display the to-do list
```

```
def display_tasks():
```

```
    if not tasks:
```

```
        print("Your to-do list is empty.")
```

```
    else:
```

```
        print("To-Do List:")
```

```
        for i, task in enumerate(tasks, start=1):
```

```
            status = "Done" if task["completed"] else "Not Done"
```

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

```
# Function to add a task to the to-do list
```

```
def add_task(task_name):
```

```
    task = {"task": task_name, "completed": False}
```

```
    tasks.append(task)
```

```
    print(f"Task '{task_name}' added to your to-do list.")
```

```
# Function to mark a task as completed
```

```
def mark_completed(task_number):
```

```
    if 1 <= task_number <= len(tasks):
```

```
        tasks[task_number - 1]["completed"] = True
```

```
        print(f"Task {task_number} marked as completed.")
```

```
    else:
```

```
        print("Invalid task number. Please enter a valid task number.")
```

```
# Function to remove a task from the to-do list
```

```
def remove_task(task_number):
```

```
    if 1 <= task_number <= len(tasks):
```

```
        removed_task = tasks.pop(task_number - 1)
```

```

        print(f"Task '{removed_task['task']}' removed from your to-do list.")
    else:
        print("Invalid task number. Please enter a valid task number.")

# Main program loop
while True:
    print("\nOptions:")
    print("1. Display to-do list")
    print("2. Add a task")
    print("3. Mark a task as completed")
    print("4. Remove a task")
    print("5. Quit")
    choice = input("Enter your choice: ")

    if choice == '1':
        display_tasks()
    elif choice == '2':
        task_name = input("Enter the task: ")
        add_task(task_name)
    elif choice == '3':
        display_tasks()
        task_number = int(input("Enter the task number to mark as completed: "))
        mark_completed(task_number)
    elif choice == '4':
        display_tasks()
        task_number = int(input("Enter the task number to remove: "))
        remove_task(task_number)
    elif choice == '5':
        break
    else:
        print("Invalid choice. Please enter a valid option.")

```