```
// TO DO LIST 2.cpp : Defines the entry point for the console application.
//
#include "stdafx.h"
#include <iostream>
#include <vector>
#include <string>
struct Task {
    std::string description;
    bool completed;
    Task(const std::string& desc) : description(desc), completed(false) {}
};
class ToDoList {
private:
    std::vector<Task> tasks;
public:
    void AddTask(const std::string& desc) {
        tasks.emplace_back(desc);
        std::cout << "Task added: " << desc << std::endl;</pre>
    }
    void ViewTasks() {
        if (tasks.empty()) {
            std::cout << "No tasks in the list." << std::endl;</pre>
            return;
        }
        std::cout << "Tasks:" << std::endl;</pre>
        for (size_t i = 0; i < tasks.size(); ++i) {</pre>
            std::cout << "[" << (tasks[i].completed ? "X" : " ") << "] " << i + 1 << ". "
<< tasks[i].description << std::endl;
    }
    void MarkTaskCompleted(int index) {
        if (index >= 1 && index <= tasks.size()) {</pre>
            tasks[index - 1].completed = true;
            std::cout << "Marked task " << index << " as completed." << std::endl;</pre>
        } else {
            std::cout << "Invalid task index." << std::endl;</pre>
    }
    void RemoveTask(int index) {
        if (index >= 1 && index <= tasks.size()) {</pre>
            tasks.erase(tasks.begin() + index - 1);
            std::cout << "Removed task " << index << "." << std::endl;</pre>
        } else {
            std::cout << "Invalid task index." << std::endl;</pre>
    }
};
int main() {
    ToDoList toDoList;
```

```
int choice;
    while (true) {
        std::cout << "\nTo-Do List Manager" << std::endl;</pre>
        std::cout << "1. Add Task" << std::endl;</pre>
        std::cout << "2. View Tasks" << std::endl;</pre>
        std::cout << "3. Mark Task as Completed" << std::endl;</pre>
        std::cout << "4. Remove Task" << std::endl;</pre>
        std::cout << "5. Quit" << std::endl;</pre>
        std::cout << "Enter your choice: ";</pre>
        std::cin >> choice;
        switch (choice) {
             case 1: {
                 std::string taskDescription;
                 std::cout << "Enter task description: ";</pre>
                 std::cin.ignore();
                 std::getline(std::cin, taskDescription);
                 toDoList.AddTask(taskDescription);
                 break;
             case 2: {
                 toDoList.ViewTasks();
                 break;
             }
             case 3: {
                 int taskIndex;
                 std::cout << "Enter the task index to mark as completed: ";</pre>
                 std::cin >> taskIndex;
                 toDoList.MarkTaskCompleted(taskIndex);
                 break;
             case 4: {
                 int taskIndex;
                 std::cout << "Enter the task index to remove: ";</pre>
                 std::cin >> taskIndex;
                 toDoList.RemoveTask(taskIndex);
                 break;
             case 5: {
                 std::cout << "Goodbye!" << std::endl;</pre>
                 return 0;
             }
             default: {
                 std::cout << "Invalid choice. Please try again." << std::endl;</pre>
        }
    }
       system("pause");
    return 0;
}
```