```
TO DO LIST
#include <iostream>
#include <vector>
#include <string>
using namespace std;
// Task structure to hold task description and its completion
status
struct Task {
  string description;
  bool isCompleted;
};
// Function to add a task
void addTask(vector<Task>& tasks) {
  string taskDescription;
  cout << "Enter task description: ";
  cin.ignore(); // To ignore the newline character left in the
huffer
  getline(cin, taskDescription); // Take multi-word task
description
  tasks.push back({taskDescription, false}); // Add task to the
list with pending status
  cout << "Task added successfully!" << endl;
}
```

```
void viewTasks(const vector<Task>& tasks) {
  if (tasks.empty()) {
    cout << "No tasks in the list!" << endl:
    return;
  }
  cout << "\nTask List:" << endl:
  for (size t i = 0; i < tasks.size(); ++i) {
    cout << (i + 1) << ". " << tasks[i].description
       << " [" << (tasks[i].isCompleted ? "Completed" :
"Pending") << "]" << endl;
  }
}
// Function to mark a task as completed
void markTaskCompleted(vector<Task>& tasks) {
  int taskIndex:
  viewTasks(tasks);
  cout << "Enter the task number to mark as completed: ";
  cin >> taskIndex;
  if (taskIndex > 0 && taskIndex <= tasks.size()) {
    tasks[taskIndex - 1].isCompleted = true;
    cout << "Task marked as completed!" << endl;</pre>
```

// Function to view tasks

} else {

```
}
}
// Function to remove a task
void removeTask(vector<Task>& tasks) {
  int taskIndex:
  viewTasks(tasks);
  cout << "Enter the task number to remove: ":
  cin >> taskIndex:
  if (taskIndex > 0 && taskIndex <= tasks.size()) {
    tasks.erase(tasks.begin() + taskIndex - 1); // Remove task
from list
    cout << "Task removed successfully!" << endl;</pre>
  } else {
    cout << "Invalid task number!" << endl:
  }
}
int main() {
  vector<Task> tasks;
  int choice;
  do {
    cout << "\n--- To-Do List Manager ---" << endl;
```

cout << "Invalid task number!" << endl:

```
cout << "1. Add Task" << endl:
cout << "2. View Tasks" << endl;
cout << "3. Mark Task as Completed" << endl;
cout << "4. Remove Task" << endl:
cout << "5. Exit" << endl;
cout << "Enter your choice: ";
cin >> choice:
switch (choice) {
  case 1:
    addTask(tasks);
    break;
  case 2:
    viewTasks(tasks);
    break;
  case 3:
    markTaskCompleted(tasks);
    break:
  case 4:
    removeTask(tasks);
    break:
  case 5:
    cout << "Exiting program..." << endl;</pre>
    break:
  default:
    cout << "Invalid choice! Please try again." << endl;</pre>
```

```
} while (choice != 5);
return 0;
}
```