```
#include <iostream>
#include <queue>
#include <string>
using namespace std;
struct Job {
  int jobID;
  string jobDescription;
  Job(int id, string desc) : jobID(id), jobDescription(desc) {}
};
class JobQueue {
private:
  queue<Job> q;
public:
  void addJob(int id, string description) {
    Job newJob(id, description);
    q.push(newJob);
    cout << "Job added: " << description << " (ID: " << id << ")" << endl;
  }
  void deleteJob() {
    if (q.empty()) {
       cout << "Queue is empty. No job to delete." << endl;
    } else {
      Job job = q.front();
       q.pop();
       cout << "Job deleted: " << job.jobDescription << " (ID: " << job.jobID << ")" << endl;
    }
```

```
}
  void displayJobs() {
     if (q.empty()) {
       cout << "Queue is empty." << endl;</pre>
     } else {
       queue<Job> temp = q;
       cout << "Current jobs in the queue:" << endl;</pre>
       while (!temp.empty()) {
         Job job = temp.front();
         temp.pop();
         cout << "Job ID: " << job.jobID << ", Description: " << job.jobDescription << endl;</pre>
       }
     }
  }
};
int main() {
  JobQueue jq;
  int choice, id;
  string description;
  while (true) {
     cout << "\nJob Queue Menu:" << endl;</pre>
     cout << "1. Add Job" << endl;
     cout << "2. Delete Job" << endl;
     cout << "3. Display Jobs" << endl;
     cout << "4. Exit" << endl;
     cout << "Enter your choice: ";</pre>
     cin >> choice;
```

switch (choice) {

```
case 1:
    cout << "Enter job ID: ";</pre>
    cin >> id;
    cin.ignore(); // to ignore the newline character left by cin
    cout << "Enter job description: ";</pre>
    getline(cin, description);
    jq.addJob(id, description);
    break;
  case 2:
    jq.deleteJob();
    break;
  case 3:
    jq.displayJobs();
    break;
  case 4:
    cout << "Exiting program." << endl;</pre>
    return 0;
  default:
    cout << "Invalid choice. Please try again." << endl;</pre>
}
```

}

}