

//CODE:

```
#include<iostream>

#include<queue>

#include<string>

using namespace std;

struct Job {

    int jobId;

    string jobName;

    Job(int id, const string& name) : jobId(id), jobName(name) {}

};

class JobQueue {

private:

    queue<Job> jobQueue;

public:

    void addJob(int id, const string& name) {

        jobQueue.push(Job(id, name));

        cout << "Job added: ID=" << id << ", Name=" << name << endl;

    }

    void deleteJob() {

        if (jobQueue.empty()) {

            cout << "No jobs in the queue to delete." << endl;

            return;

        }

        Job removedJob = jobQueue.front();

        jobQueue.pop();

        cout << "Job deleted: ID=" << removedJob.jobId << ", Name=" << removedJob.jobName << endl;

    }

    void displayJobs() {
```

```

if (jobQueue.empty()) {
    cout << "No jobs in the queue." << endl;
    return;
}

cout << "Jobs in the queue:" << endl;
queue<Job> tempQueue = jobQueue;

while (!tempQueue.empty()) {
    Job currentJob = tempQueue.front();
    cout << "ID=" << currentJob.jobId << ", Name=" << currentJob.jobName << endl;
    tempQueue.pop();
}
};

int main() {
    JobQueue jobQueue;

    int choice, id;
    string name;
    while (true) {
        cout << "1. Add Job\n2. Delete Job\n3. Display Jobs\n4. Exit\n";
        cout << "Enter your choice: ";
        cin >> choice;
        switch (choice) {
            case 1:
                cout << "Enter Job ID: ";
                cin >> id;
                cout << "Enter Job Name: ";
                cin.ignore();
                getline(cin, name);
                jobQueue.addJob(id, name);

```

```
break;

case 2:

jobQueue.deleteJob();

break;

case 3:

jobQueue.displayJobs();

break;

case 4:

cout << "Exiting..." << endl;

return 0;

default:

cout << "Invalid choice. Please try again." << endl;

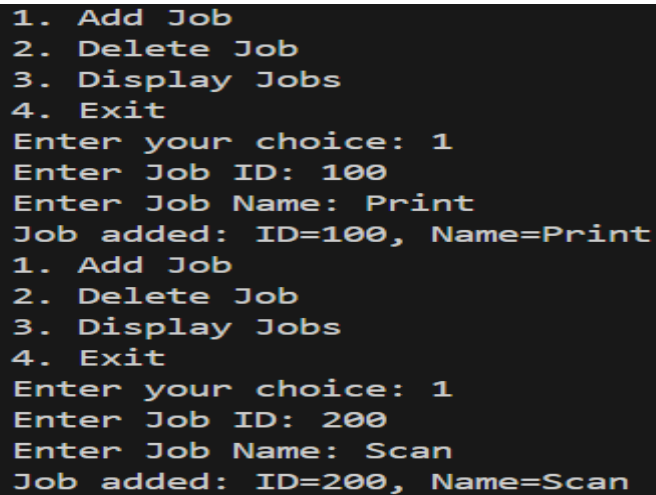
}

}

return 0;

}
```

//OUTPUT:



```
1. Add Job
2. Delete Job
3. Display Jobs
4. Exit
Enter your choice: 1
Enter Job ID: 100
Enter Job Name: Print
Job added: ID=100, Name=Print
1. Add Job
2. Delete Job
3. Display Jobs
4. Exit
Enter your choice: 1
Enter Job ID: 200
Enter Job Name: Scan
Job added: ID=200, Name=Scan
```

```
1. Add Job
2. Delete Job
3. Display Jobs
4. Exit
Enter your choice: 3
Jobs in the queue:
ID=100, Name=Print
ID=200, Name=Scan
```

```
Enter your choice: 2
Job deleted: ID=100, Name=Print
```

```
1. Add Job
2. Delete Job
3. Display Jobs
4. Exit
Enter your choice: 4
Exiting...
```