Department maintains student's database. The file contains roll number, name, division and address.
Write a program to create a sequential file to store and maintain student data. It should allow the user
to add, delete information about students. Display information of a particular student. If record of student
does not exist an appropriate message is displayed. If student record is found it should display the
student details

Code
```cpp
#include <iostream>
#include <fstream>
#include <string>

using namespace std;

struct Student {
    int rollNumber;
    string name;
    string division;
    string address;
};

// Function to add student record
void addStudent() {
    Student s;
    ofstream outFile("student.txt", ios::app);

    cout << "Enter Roll Number: ";
    cin >> s.rollNumber;
    cout << "Enter Name: ";
    cin.ignore();
    getline(cin, s.name);
    cout << "Enter Division: ";
    getline(cin, s.division);
    cout << "Enter Address: ";
```

```cpp
    getline(cin, s.address);

    outFile << s.rollNumber << "\n";
    outFile << s.name << "\n";
    outFile << s.division << "\n";
    outFile << s.address << "\n\n";

    outFile.close();
    cout << "Record Added Successfully!" << endl;
}

// Function to delete student record
void deleteStudent() {
    ifstream inFile("student.txt");
    ofstream outFile("temp.txt");
    int roll, flag = 0;
    Student s;

    cout << "Enter Roll Number to delete: ";
    cin >> roll;

    while (inFile >> s.rollNumber) {
        getline(inFile, s.name);
        getline(inFile, s.division);
        getline(inFile, s.address);

        if (s.rollNumber != roll) {
            outFile << s.rollNumber << "\n";
            outFile << s.name << "\n";
            outFile << s.division << "\n";
            outFile << s.address << "\n\n";
        } else {
            flag = 1;
        }
    }

    inFile.close();
```

```cpp
        outFile.close();

        remove("student.txt");
        rename("temp.txt", "student.txt");

        if (flag)
            cout << "Record Deleted Successfully!" << endl;
        else
            cout << "Record Not Found!" << endl;
}

// Function to display student record
void displayStudent() {
        ifstream inFile("student.txt");
        int roll, flag = 0;
        Student s;

        cout << "Enter Roll Number to display: ";
        cin >> roll;

        while (inFile >> s.rollNumber) {
            getline(inFile, s.name);
            getline(inFile, s.division);
            getline(inFile, s.address);

            if (s.rollNumber == roll) {
                flag = 1;
                cout << "Roll Number: " << s.rollNumber << endl;
                cout << "Name: " << s.name << endl;
                cout << "Division: " << s.division << endl;
                cout << "Address: " << s.address << endl;
            }
        }

        inFile.close();

        if (!flag)
```

```cpp
        cout << "Record Not Found!" << endl;
}

int main() {
    int choice;

    while (1) {
        cout << "\nStudent Database Menu" << endl;
        cout << "1. Add Student Record" << endl;
        cout << "2. Delete Student Record" << endl;
        cout << "3. Display Student Record" << endl;
        cout << "4. Exit" << endl;
        cout << "Enter your choice: ";
        cin >> choice;

        switch (choice) {
            case 1:
                addStudent();
                break;
            case 2:
                deleteStudent();
                break;
            case 3:
                displayStudent();
                break;
            case 4:
                exit(0);
            default:
                cout << "Invalid Choice!" << endl;
        }
    }

    return 0;
}
```

```
Student Database Menu
1. Add Student Record
2. Delete Student Record
3. Display Student Record
4. Exit
Enter your choice: 1
Enter Roll Number: 50
Enter Name: Harsh
Enter Division: A
Enter Address: XYZ
Record Added Successfully!

Student Database Menu
1. Add Student Record
2. Delete Student Record
3. Display Student Record
4. Exit
Enter your choice: 1
Enter Roll Number: 51
Enter Name: Gauri
Enter Division: A
Enter Address: ABC
Record Added Successfully!
```