Program:-

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
struct Student {
  string roll_no, name, division, address;
};
void addStudent() {
  ofstream file("student_data.txt", ios::app);
  Student s;
  cout << "Enter Roll No: ";</pre>
  cin >> s.roll_no;
  cout << "Enter Name: ";</pre>
  cin >> s.name;
  cout << "Enter Division: ";</pre>
  cin >> s.division;
  cout << "Enter Address: ";
  cin >> s.address;
  file << s.roll_no << "," << s.name << "," << s.division << "," << s.address << endl;
  file.close();
  cout << "Student information added successfully.\n";</pre>
}
void deleteStudent() {
  ifstream file("student_data.txt");
```

```
ofstream temp("temp.txt");
  string roll no;
  bool found = false;
  cout << "Enter Roll No to delete: ";
  cin >> roll_no;
  string line;
  while (getline(file, line)) {
    if (line.find(roll_no) != 0) {
       temp << line << endl;
    } else {
       found = true;
    }
  }
  file.close();
  temp.close();
  remove("student_data.txt");
  rename("temp.txt", "student_data.txt");
  if (found) {
    cout << "Student information deleted successfully.\n";</pre>
  } else {
    cout << "Student record not found.\n";</pre>
  }
}
void displayStudent() {
  ifstream file("student_data.txt");
  string roll_no;
  bool found = false;
  cout << "Enter Roll No to search: ";
  cin >> roll_no;
```

```
string line;
  while (getline(file, line)) {
    if (line.find(roll_no) == 0) {
       cout << "Student Details: " << line << endl;</pre>
       found = true;
       break;
    }
  }
  file.close();
  if (!found) {
    cout << "Student record not found.\n";</pre>
  }
}
int main() {
  int choice;
  do {
    cout << "\n1. Add Student\n2. Delete Student\n3. Display Student\n4. Exit\nEnter your
choice: ";
    cin >> choice;
    switch (choice) {
       case 1: addStudent(); break;
       case 2: deleteStudent(); break;
       case 3: displayStudent(); break;
       case 4: break;
       default: cout << "Invalid choice!\n";</pre>
    }
  } while (choice != 4);
  return 0;
}
```

Output:-

```
    Add Student

Delete Student
Display Student
4. Exit
Enter your choice: 1
Enter Roll No: 4
Enter Name: Parth
Enter Division: C
Enter Address: Pune
Student information added successfully.
1. Add Student
Delete Student
Display Student
4. Exit
Enter your choice: 3
Enter Roll No to search: 4
Student Details: 4,Parth,C,Pune
1. Add Student
Delete Student
3. Display Student
4. Exit
Enter your choice: 2
Enter Roll No to delete: 4
Student information deleted successfully.
1. Add Student
Delete Student
3. Display Student
4. Exit
Enter your choice: 4
PS C:\Users\athar\OneDrive\Desktop\Parth\Coding\C++>
```