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#include <iostream>
#include <fstream>
#include <cstring>
using namespace std;

struct Student {
    int rollNo;
    char name[50];
    char division[10];
    char address[100];
};

void addStudent() {
    ofstream outFile("students.dat", ios::app | ios::binary);
    Student student;
    cout << "Enter roll number: ";
    cin >> student.rollNo;
    cout << "Enter name: ";
    cin.ignore();
    cin.getline(student.name, 50);
    cout << "Enter division: ";
    cin.getline(student.division, 10);
    cout << "Enter address: ";
    cin.getline(student.address, 100);
    outFile.write(reinterpret_cast<char*>(&student), sizeof(student));
    outFile.close();
}

void deleteStudent() {
    int rollNo;
    cout << "Enter roll number to delete: ";
    cin >> rollNo;

    ifstream inFile("students.dat", ios::binary);
    ofstream outFile("temp.dat", ios::binary);
    Student student;
    bool found = false;

    while (inFile.read(reinterpret_cast<char*>(&student),
sizeof(student))) {
        if (student.rollNo != rollNo) {
            outFile.write(reinterpret_cast<char*>(&student),
sizeof(student));
        } else {
            found = true;
        }
    }

    inFile.close();
    outFile.close();

    remove("students.dat");
    rename("temp.dat", "students.dat");
}

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        if (found) {
            cout << "Student record deleted successfully.\n";
        } else {
            cout << "Student record not found.\n";
        }
    }

void displayStudent() {
    int rollNo;
    cout << "Enter roll number to display: ";
    cin >> rollNo;

    ifstream inFile("students.dat", ios::binary);
    Student student;
    bool found = false;

    while (inFile.read(reinterpret_cast<char*>(&student),
sizeof(student))) {
        if (student.rollNo == rollNo) {
            found = true;
            cout << "Roll Number: " << student.rollNo << endl;
            cout << "Name: " << student.name << endl;
            cout << "Division: " << student.division << endl;
            cout << "Address: " << student.address << endl;
            break;
        }
    }

    inFile.close();

    if (!found) {
        cout << "Student record not found.\n";
    }
}

int main() {
    int choice;
    do {
        cout << "1. Add Student\n";
        cout << "2. Delete Student\n";
        cout << "3. Display Student\n";
        cout << "4. Exit\n";
        cout << "Enter your choice: ";
        cin >> choice;

        switch (choice) {
            case 1:
                addStudent();
                break;
            case 2:
                deleteStudent();
                break;
            case 3:
                displayStudent();

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        break;
    case 4:
        cout << "Exiting program.\n";
        break;
    default:
        cout << "Invalid choice. Try again.\n";
    }
} while (choice != 4);

return 0;
}
```