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#include <iostream>
#include <fstream>
#include <cstring>
using namespace std;
class tel
{
public:
    int rollNo, roll1;
    char name[10];
    char div;
    char address[20];
    void accept()
    {
        cout << "\n\tEnter Roll Number : ";
        cin >> rollNo;
        cout << "\n\tEnter the Name : ";
        cin >> name;
        cout << "\n\tEnter the Division:";
        cin >> div;
        cout << "\n\tEnter the Address:";
        cin >> address;
    }
    void accept2()
    {
        cout << "\n\tEnter the Roll No. to modify : ";
        cin >> rollNo;
    }
    void accept3()
    {
        cout << "\n\tEnter the name to modify : ";
        cin >> name;
    }
}
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    }
    int getRollNo()
    {
        return rollNo;
    }
    void show()
    {

        cout << "\n\t" << rollNo << "\t\t" << name << "\t\t" << div << "\t\t"
<< address;
    }
};
int main()
{
    int i, n, ch, ch1, rec, start, count, add, n1, add2, start2, n2, y, a, b,
on, oname, add3, start3, n3, y1, add4, start4, n4;
    char name[20], name2[20];
    tel t1;
    count = 0;
    fstream g, f;
    do
    {
        cout << "\nMENU";
        cout << "\n1.Insert and overwrite\n2.Show\n3.Search &
Edit(number)\n4.Search & Edit(name)\n5.Search &
Edit(onlynumber)\n6.Search & edit(only name)\n 7.Delete a Student
Record\n 8.Exit\n\tEnter the Choice\t:";
        cin >> ch;
        switch (ch)
        {
            case 1:
                f.open("StuRecord.txt", ios::out);

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x:

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t1.accept();
f.write((char *)&t1, (sizeof(t1)));
cout << "\nDo you want to enter more records?\n1.Yes\n2.No";
cin >> ch1;
if (ch1 == 1)
    goto x;
else
{
    f.close();
    break;
}
```

case 2:

```
f.open("StuRecord.txt", ios::in);
f.read((char *)&t1, (sizeof(t1)));
// cout<<"\n\tRoll No.\t\tName \t\t Division \t\t Address";
while (f)
{
    t1.show();
    f.read((char *)&t1, (sizeof(t1)));
}
f.close();
break;
```

case 3:

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cout << "\nEnter the roll number you want to find";
cin >> rec;
f.open("StuRecord.txt", ios::in | ios::out);
f.read((char *)&t1, (sizeof(t1)));
while (f)
{
    if (rec == t1.rollNo)
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    {
        cout << "\nRecord found";
        add = f.tellg();
        f.seekg(0, ios::beg);
        start = f.tellg();
        n1 = (add - start) / (sizeof(t1));
        f.seekp((n1 - 1) * sizeof(t1), ios::beg);
        t1.accept();
        f.write((char *)&t1, (sizeof(t1)));
        f.close();
        count++;
        break;
    }
    f.read((char *)&t1, (sizeof(t1)));
}
if (count == 0)
    cout << "\nRecord not found";
f.close();
break;

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case 4:

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    cout << "\nEnter the name you want to find and edit";
    cin >> name;
    f.open("StuRecord.txt", ios::in | ios::out);
    f.read((char *)&t1, (sizeof(t1)));
    while (f)
    {
        y = (strcmp(name, t1.name));
        if (y == 0)
        {
            cout << "\nName found";
            add2 = f.tellg();

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        f.seekg(0, ios::beg);
        start2 = f.tellg();
        n2 = (add2 - start2) / (sizeof(t1));
        f.seekp((n2 - 1) * sizeof(t1), ios::beg);
        t1.accept();
        f.write((char *)&t1, (sizeof(t1)));
        f.close();
        break;
    }
    f.read((char *)&t1, (sizeof(t1)));
}
break;
case 5:
    cout << "\n\tEnter the roll number you want to modify";
    cin >> on;
    f.open("StuRecord.txt", ios::in | ios::out);
    f.read((char *)&t1, (sizeof(t1)));
    while (f)
    {
        if (on == t1.rollNo)
        {
            cout << "\n\tNumber found";
            add3 = f.tellg();
            f.seekg(0, ios::beg);
            start3 = f.tellg();
            n3 = (add3 - start3) / (sizeof(t1));
            f.seekp((n3 - 1) * (sizeof(t1)), ios::beg);
            t1.accept2();
            f.write((char *)&t1, (sizeof(t1)));
            f.close();
            break;
        }
    }

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        f.read((char *)&t1, (sizeof(t1)));
    }
    break;
case 6:
    cout << "\nEnter the name you want to find and edit";
    cin >> name2;
    f.open("StuRecord.txt", ios::in | ios::out);
    f.read((char *)&t1, (sizeof(t1)));
    while (f)
    {
        y1 = (strcmp(name2, t1.name));
        if (y1 == 0)
        {
            cout << "\nName found";
            add4 = f.tellg();
            f.seekg(0, ios::beg);
            start4 = f.tellg();
            n4 = (add4 - start4) / (sizeof(t1));
            f.seekp((n4 - 1) * sizeof(t1), ios::beg);
            t1.accept3();
            f.write((char *)&t1, (sizeof(t1)));
            f.close();
            break;
        }
        f.read((char *)&t1, (sizeof(t1)));
    }
    break;
case 7:
    int roll;
    cout << "Please Enter the Roll No. of Student Whose Info You
Want to Delete: ";
    cin >> roll;

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f.open("StuRecord.txt", ios::in);
g.open("temp.txt", ios::out);
f.read((char *)&t1, sizeof(t1));
while (!f.eof())
{
    if (t1.getRollNo() != roll)
        g.write((char *)&t1, sizeof(t1));
    f.read((char *)&t1, sizeof(t1));
}
cout << "The record with the roll no. " << roll << " has been
deleted " << endl;
f.close();
g.close();
remove("StuRecord.txt");
rename("temp.txt", "StuRecord.txt");
break;
case 8:
    cout << "\n\tThank you";
    break;
}
} while (ch != 8);
}

```

