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#include<iostream>
#include<fstream>
#include<string.h>
using namespace std;
class student
{
    typedef struct stud
    {
        int roll;
        char name[10];
        char div;
        char add[10];
    }stud;
    stud rec;
public:
    void create();
    void display();
    int search();
    void Delete();
};
void student::create()
{
    char ans;
    ofstream fout;
    fout.open("stud.dat",ios::out|ios::binary);
    do
    {
        cout<<"\n\tEnter Roll No of Student   : ";
        cin>>rec.roll;
        cout<<"\n\tEnter a Name of Student     : ";
        cin>>rec.name;
        cout<<"\n\tEnter a Division of Student : ";
        cin>>rec.div;
        cout<<"\n\tEnter a Address of Student  : ";
        cin>>rec.add;
        fout.write((char *)&rec,sizeof(stud))<<flush;
        cout<<"\n\tDo You Want to Add More Records: ";
        cin>>ans;
    }while(ans=='y'||ans=='Y');
    fout.close();
}
void student::display()
{
    ifstream fin;
    fin.open("stud.dat",ios::in|ios::binary);
    fin.seekg(0,ios::beg);
    cout<<"\n\tThe Content of File are:\n";
    cout<<"\n\tRoll\tName\tDiv\tAddress";
    while(fin.read((char *)&rec,sizeof(stud)))
    {

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        if(rec.roll!=-1)
            cout<<"\n\t"<<rec.roll<<"\t"<<rec.name<<"\t"<<rec.div<<"\t"<<rec.add;
    }
    fin.close();
}

int student::search()
{
    int r,i=0;
    ifstream fin;
    fin.open("stud.dat",ios::in|ios::binary);
    fin.seekg(0,ios::beg);
    cout<<"\n\tEnter a Roll No: ";
    cin>>r;
    while(fin.read((char *)&rec,sizeof(stud)))
    {
        if(rec.roll==r)
        {
            cout<<"\n\tRecord Found...\n";
            cout<<"\n\tRoll\tName\tDiv\tAddress";
            cout<<"\n\t"<<rec.roll<<"\t"<<rec.name<<"\t"<<rec.div<<"\t"<<rec.add;
            return i;
        }
        i++;
    }
    fin.close();
    return 0;
}

void student::Delete()
{
    int pos;
    pos=search();
    fstream f;
    f.open("stud.dat",ios::in|ios::out|ios::binary);
    f.seekg(0,ios::beg);
    if(pos==0)
    {
        cout<<"\n\tRecord Not Found";
        return;
    }
    int offset=pos*sizeof(stud);
    f.seekp(offset);
    rec.roll=-1;
    strcpy(rec.name,"NULL");
    rec.div='N';
    strcpy(rec.add,"NULL");
    f.write((char *)&rec,sizeof(stud));
    f.seekg(0);
    f.close();
    cout<<"\n\tRecord Deleted";
}

int main()

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{
    student obj;
    int ch,key;
    char ans;
    do
    {
        cout<<"\n\t***** Student Information *****";
        cout<<"\n\t1. Create\n\t2. Display\n\t3. Delete\n\t4. Search\n\t5. Exit";
        cout<<"\n\t.... Enter Your Choice: ";
        cin>>ch;
        switch(ch)
        {
            case 1: obj.create();
                    break;
            case 2: obj.display();
                    break;
            case 3: obj.Delete();
                    break;
            case 4: key=obj.search();
                    if(key==0)
                        cout<<"\n\tRecord Not Found...\n";
                    break;
            case 5:
                    break;
        }
        cout<<"\n\t.... Do You Want to Continue in Main Menu: ";
        cin>>ans;
    }while(ans=='y'||ans=='Y');
return 1;
}

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