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//9
#include<iostream>
#include<fstream>
#include<string.h>
using namespace std;
class Student
int rno;
char sname[20];
char subject[20];
int sub_code;
float internal;
float university;
public:
Student()
rno=0;
strcpy(sname,"\0");
strcpy(subject,"\0");
sub code=0;
internal=0.0;
university=0.0;
int acceptRollno()
    return(rno);
void acceptDetails()
cout<<"\nEnter Details :";</pre>
cout<<"\nRoll no: ";</pre>
cin>>rno;
cout<<"\nname: ";</pre>
cin>>sname;
cout<<"\nSubject Code:";</pre>
cin>>sub_code;
cout<<"\nSubject name :";</pre>
cin>>subject;
cout<<"\nInternal AssessMent Marks :";</pre>
cin>>internal;
cout<<"\nUniversity Exam Marks :";</pre>
cin>>university;
void putData()
cout<<"\nRoll No.:";</pre>
cout<<rno;
cout<< "\tname:";</pre>
cout<<sname;</pre>
cout<<"\nSubject Code :";</pre>
cout<<sub_code;</pre>
cout<<"\nSubject name:";</pre>
cout<<subject;</pre>
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cout<<"\nlnternal AssessMent Marks:";</pre>
cout<<internal;</pre>
cout<<"\nUniversity Exam Marks:";</pre>
cout<<university<<"\n\n";</pre>
};
class Operations
ifstream fin;
ofstream fout;
fstream fs;
public:
void addRecord( );
void show();
void search(int );
int DelRecord(int );
int edit(int );
void Operations::addRecord()
Student r;
r.acceptDetails();
fout.open("Data",ios::ate|ios::app);
fout.write((char *)&r,sizeof(r));
fout.close();
void Operations::show()
Student r;
fin.open("Data");
fin.seekg(0, ios::beg);
while(fin.read((char *)&r,sizeof(r)))
r.putData();
fin.close();
void Operations::search(int rno)
Student r;
int flag=0;
fin.open("Data");
fin.seekg(0, ios::beg);
while( fin.read((char *)&r,sizeof(r)))
if(r.acceptRollno()==rno)
flag=1;
break;
fin.close();
if(flag==1)
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cout<<"\nStudent Found:";</pre>
r.putData();
else
cout<<"\nStudent not Found ";</pre>
int Operations::DelRecord(int rno)
Student r;
int flag=0;
fin.open("Data" );
fout.open("Temp",ios::ate|ios::app);
fin.seekg(0, ios::beg);
while( fin.read((char *)&r,sizeof(r)))
if(r.acceptRollno()==rno)
flag=1;
else
fout. write((char *)&r, sizeof(r));
fin.close();
fout.close();
remove("Deta");
rename("Temp","Data");
return(flag);
int Operations::edit(int rno)
Student r;
int flag=0;
fs.open("Data");
fs.seekg(0, ios:: beg);
while(fs.read((char *)&r,sizeof(r)))
{
    if(r.acceptRollno()==rno)
    {
        flag=1;
        cout<<"\nEnter New Details ";</pre>
        r.acceptDetails();
        fs.seekp((int)fs.tellg()-sizeof(r),ios::beg);
        fs.write((char *)&r,sizeof(r));
    }
fs.close();
return (flag);
int main()
```

```
Operations f;
    int ch,n,i,flag=0;
    do
    {
         "\n\n\t----";
        cout<<"\n1.Build a Master Table\n2.List a Table\n3.Insert a new Entry\n4.Delete Old Entry\</pre>
        cout<<"\nEnter your choice ";</pre>
        cin>>ch;
        switch(ch)
             case 1:
                 if(flag==0)
                      cout<<"\nEnter No. of Students to insert ";</pre>
                      for(i=0;i<n;i++)</pre>
                          f.addRecord();
                      flag=1;
                 }
                 else
                 {
                      cout<<"\nsorry table is already built";</pre>
                 break;
             case 2:
                  f.show();
                  break;
             case 3:f.addRecord();
                 break;
             case 4:cout<<"\nEnter Roll No of Student Whoes Student is to be Deleted :";</pre>
               cin>>n;
               i=f.DelRecord(n);
               if(i==1)
                cout<<"\nStudent Deleted Successfully ";</pre>
            }
else
cout<<"\nStudent not Found ";</pre>
}
case 5:cout<<"\nEnter Roll No of Student Whoes Student is to be Edit:";</pre>
cin>>n;
i=f.edit(n);
if(i==1)
    cout<<"\n Student Modified Successfully ";</pre>
else
cout<<"\nStudent not Found ";</pre>
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}
break;
case 6:cout<<"\nEnter Roll No of Student to be Searched ";
cin>>n,
f.search(n);
break;
case 7:
break;
default:cout<<"\n Invalid Choice....";
}
}while(ch!=7);
return(0);
}</pre>
```