**PROGRAM TO INSERT DATA IN A SORTED FILE**

#include<iostream.h>

#include<fstream.h>  
#include<conio.h>  
#include<stdio.h>   
class stu{  
int rollno;  
char name[15],Class[4];  
float marks;  
char grade;  
public:  
void getdata();  
void putdata();  
int getrno() //access roll no  
{  
return rollno;  
}  
}s1,stud;  
void stu::getdata()  
{  
cout<<"enter roll no:";  
cin>>rollno;  
cout<<"enter name :";  
cin>>name;  
cout<<"enter class :";  
cin>>Class;  
cout<<"enter marks :";  
cin>>marks;  
cout<<"enter grade";  
cin>>grade;  
};  
void stu::putdata()  
{  
cout<<"roll no:"<<rollno<<"\t Name:"<<name<<"\n Marks:"<<marks<<"\t grade :"<<grade;  
};  
void main()  
{  
clrscr();  
ifstream fi("stu.dat",ios::in); //file must be on disk  
ofstream fo("temp.dat",ios::out,ios::app);  
char last='y',choi;  
lb:  
cout<<"enter detail of the student you want to add \n";  
s1.getdata();  
while(!fi.eof())  
{  
fi.read((char\*)&stud,sizeof (stud));  
if(s1.getrno()<=stud.getrno())  
{  
fo.write((char\*)&s1,sizeof (s1));  
last='n';  
break;  
}  
else  
fo.write((char\*)&stud,sizeof(stud));  
}

if(last=='n')  
fo.write((char\*)&s1,sizeof(s1));  
else  
if(!fi.eof())  
{while(!fi.eof())  
{  
fi.read((char\*)&stud,sizeof(stud));  
fo.write((char\*)&s1,sizeof(s1));  
}  
}  
cout<<"want to enter more detail(y\n)";  
cin>>choi;  
if(choi=='y'||choi=='Y')  
goto lb;  
fi.close();  
fo.close();  
remove("stu.dat");  
rename("temp.dat","stu.dat");  
fi.open("stu.dat",ios::in);  
cout<<"now file contains \n";  
while(!fi.eof())  
{  
fi.read((char\*)&stud,sizeof(stud));  
if(fi.eof())  
break;  
stud.putdata();  
}  
fi.close();  
  
getch();  
}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

