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#include<iostream>
#include<fstream>
using namespace std;
typedef struct student
int roll;
char a, name[20], add[30];
}stud;
ifstream fin;
ofstream fout;
fstream fm;
int n;
char fname[20];
void create();
void display();
void insert();
void search(int key);
void delete1(int key);
int main()
int ch,x;
do
cout<<"\n1.Accept\n2.Display\n3.Insert\n4.Search\n5.Delete\n6.Exit";</pre>
cout<<"\nEnter your choice=";</pre>
cin>>ch;
switch(ch)
case 1:
create();
break;
case 2:
display();
break;
case 3:
insert();
break;
case 4:
cout<<"Enter roll no to search=";</pre>
cin>>x;
search(x);
break;
case 5:
cout<<"Enter roll no to delete=";</pre>
cin>>x;
delete1(x);
break;
}while(ch!=6);
return 0;
}void create()
int i;
stud s;
```

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cout<<"Enter name of the file=";</pre>
cin>>fname;
fm.open(fname, ios::out);
cout<<"\nEnter no. of records:=";</pre>
cin>>n;
for(i=0;i<n;i++)
cout<<"Enter roll no=";</pre>
cin>>s.roll;
cout<<"Enter name=";</pre>
cin>>s.name;
cout<<"Enter division=";</pre>
cin>>s.a;
cout<<"Enter address=";</pre>
cin>>s.add;
fm.write((char*)&s, sizeof(s));
fm.close();
}//create
void display()
int i;
stud s;
fin.open(fname);
cout<<"\nROLL NO\tNAME\tDIV\tADDRESS";</pre>
// while(!fin.eof())
for(i=0;i<n;i++)
fin.read((char*)&s, sizeof(s));
cout<<"\n"<<s.roll<<"\t"<<s.add;</pre>
fin.close();
}//display
void insert()
stud s;
fout.open(fname, ios::app);
cout<<"Enter roll no=";</pre>
cin>>s.roll;
cout<<"Enter name=";</pre>
cin>>s.name;
cout<<"Enter division=";</pre>
cin>>s.a;
cout<<"Enter address=";</pre>
cin>>s.add;
fout.write((char*)&s, sizeof(s));
n++;
fout.close();
void search(int key)
stud s;
int flag=0,i;
fin.open(fname);
```

```
for(i=0;i<n;i++)
fin.read((char *)&s, sizeof(s));
if(s.roll==key)
cout<<"\nRecord is present";</pre>
cout<<s.roll<<"\nRoll No.";</pre>
cout<<s.name<<"\nName=";</pre>
cout<<s.a<<"\nDivision=";</pre>
cout<<s.add<<"\nAddress=";</pre>
flag=1;
if(flag==0)
cout<<"\nRoll no.= "<<key<<" is not present in the record";</pre>
fin.close();
void delete1(int key)
stud s;
int flag=0,i;
fin.open(fname);
fout.open("temp.txt",ios::out);
for(i=0;i<n;i++)
fin.read((char *)&s,sizeof(s));
if(s.roll==key)
cout<<"\nRecord deleted successfully";</pre>
flag=1;
}
else
fout.write((char *)&s, sizeof(s));
if(flag==0)
cout<<"\nRoll no.= "<<key<<" is not present in the record";</pre>
else
n--;
fin.close();
fout.close();
remove(fname);
rename("temp.txt", fname);
Output:-
1.Accept
2.Display
3.Insert
4.Search
```

```
5.Delete
6.Exit
Enter your choice=1
Enter name of the file=StudentRecords
Enter no. of records:=2
Enter roll no=20
Enter name=Shankar
Enter division=A
Enter address=dodi
Enter roll no=58
Enter name=Tanmay
Enter division=A
Enter address=Nashik
1.Accept
2.Display
3.Insert
4.Search
5.Delete
6.Exit
Enter your choice=2
ROLL NO NAME DIV ADDRESS
20 Shankar A dodi
58 Tanmay A Nashik
1.Accept
2.Display
3.Insert
4.Search
5.Delete
6.Exit
Enter your choice=3
Enter roll no=40
Enter name=Hardik
Enter division=A
Enter address=sangamner
1.Accept
2.Display
3.Insert
4.Search
5.Delete
6.Exit
Enter your choice=4
Enter roll no to search=20
Record is present20
Roll No.Shankar
Name=A
Division=dodi
Address=
1.Accept
2.Display
3.Insert
4.Search
5.Delete
6.Exit
```

Enter your choice=5

Enter roll no to delete=40 Record deleted successfully

- 1.Accept
- 2.Display
- 3.Insert
- 4.Search
- 5.Delete
- 6.Exit

Enter your choice=2

ROLL NO NAME DIV ADDRESS

- 20 Shankar A dodi
- 58 Tanmay A Nashik
- 1.Accept
- 2.Display
- 3.Insert
- 4.Search
- 5.Delete
- 6.Exit

Enter your choice=6