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Roll: 53

Subject: DSA

LAB ASSIGNMENT NO. 10

//LAB10 File handling program to 1. Create 2. Display 3. Add 4. Search 5. Remove student records.

```
#include<iostream>
```

```
#include<fstream> using
```

```
namespace std; struct
```

```
student
```

```
{ int rn;
```

```
char div;
```

```
char name[20], adr[20];
```

```
}; class File {
```

```
char fname[20];
```

```
public :
```

```
void create(); void
```

```
display(); void
```

```
add(); void
```

```
Delet(int rn); void
```

```
search(int rn);
```

```
}; int main()
```

```
{ int choice,
```

```
rn; File obj;
```

```
do {
```

```
cout<<"Selec
```

```
t operation
```

```
from : 1.
```

```
Create
```

```
records 2.
```

```
Display
```

records 3.

Add records

4. Remove

records 5. Search records 6. exit\n";

cin>>choice; switch(choice)

{

case 1: obj.create();

break;

case 2: obj.display();

break; case 3:

obj.add(); break;

case 4: cout<<"Enter student Roll No whose record to be deleted\n" ;

cin>>rn; obj.Delet(rn); break;

case 5: cout<<"Enter student Roll No whose record to be searched\n" ;

cin>>rn; obj.search(rn); break;

case 6: cout<<"Exit\n";

break;

default:cout<<"Wrong Choice\n";

break;

}

}while(choice!=6);

return 0; }

void File :: create()

{ ofstream

fp; student

s; char

option;

cout<<"Enter File name to be opened\n";

cin>>fname; fp.open(fname);

do

{

cout<<"Enter student Roll No, Div, Name, Address\n";

cin>>s.rn>>s.div>>s.name>>s.adr;

```

fp.write((char*)&s,sizeof(s)); cout<<"Do you want
to add more records\n"; cin>>option;
}while(option=='y'); fp.close(); }

void File :: display()
{ ifstream fp;
student s;
fp.open(fname);
cout<<"Roll No\tDiv\tName\tAddress\n";
fp.read((char*)&s,sizeof(s)); while(!fp.eof())
{
cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";
fp.read((char*)&s,sizeof(s));
} fp.close(); }

void File :: add()
{ fstream fp; student s;
fp.open(fname, ios::app);
cout<<"Enter records to be added \n Enter Roll No\tDiv\tName\tAddress\n";
cin>>s.rn>>s.div>>s.name>>s.adr; fp.write((char*)&s,sizeof(s));
fp.close(); }

void File :: search(int rn)
{ fstream fp; student s; int
flag=0; fp.open(fname);
fp.read((char*)&s,sizeof(s));
while(!fp.eof())
{
if(rn==s.rn)
{ flag=1;
break; }

fp.read((char*)&s,sizeof(s));
}
if(flag==1)

```

```

    cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";
else
    cout<<"Record not found\n";
fp.close(); }
void File :: Delet(int rn)
{ ifstream
fp1; ofstream
fp2; student
s; int flag=0;
fp1.open(fna
me);
fp2.open("te
mp.txt");
fp1.read((char*)&s,sizeof(s));
while(!fp1.eof())
{
if(rn==s.rn)
{
cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";
flag=1; } else
fp2.write((char*)&s,sizeof(s));
fp1.read((char*)&s,sizeof(s));
} if(flag==0)
cout<<"Record not found\n";

fp1.close(); fp2.close();
remove(fname);
rename("temp.txt", fname);
}

```

Output

```
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online compiler and debugger for c/c++
code compile run debug share.

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main.cpp
Students
input
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
1
Enter File name to be opened
Students
Enter student Roll No, Div, Name, Address
79 A Manali Manchar
Do you want to add more records
y
Enter student Roll No, Div, Name, Address
75 A Kalyani Akole
Do you want to add more records
y
Enter student Roll No, Div, Name, Address
73 A Manasi Nashik
Do you want to add more records
y
Enter student Roll No, Div, Name, Address
72 A Shweta Aurangabad
Do you want to add more records
n
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
2
Roll No Div Name Address
79 A Manali Manchar
75 A Kalyani Akole
73 A Manasi Nashik
72 A Shweta Aurangabad
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
3
Enter records to be added
Enter Roll No Div Name Address
70 A Pranjal chakan
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
2
Roll No Div Name Address
79 A Manali Manchar
75 A Kalyani Akole
```

Settings - Manage search engines and...

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main.cpp

Students

input

Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
3
Enter records to be added
Enter Roll No Div Name Address
70 A Pranjal chakan
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
2
Roll No Div Name Address
79 A Manali Manchar
75 A Kalyani Akole
73 A Manasi Nashik
72 A Shweta Aurangabad
70 A Pranjal chakan
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
4
Enter student Roll No whose record to be deleted
70
70 A Pranjal chakan
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
2
Roll No Div Name Address
79 A Manali Manchar
75 A Kalyani Akole
73 A Manasi Nashik
72 A Shweta Aurangabad
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
5
Enter student Roll No whose record to be searched
79
79 A Manali Manchar
Select operation from : 1. Create records 2. Display records 3. Add records 4. Remove records 5. Search records 6. exit
6
Exit
...Program finished with exit code 0
Press ENTER to exit console.

Search

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