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Practical No. 11

```
#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 :";</pre>
               cin>>rec.roll;
               cout<<"\n\tEnter Name of Student :";</pre>
               cin>>rec.name;
               cout<<"\n\tEnter Division of Student :";</pre>
               cin>>rec.div;
               cout<<"\n\tEnter Address of Student :";</pre>
               cin>>rec.add;
               fout.write((char*)&rec,sizeof(stud))<<flush;</pre>
               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";</pre>
       cout<<"\n\tRoll\tName\tDiv\tAddress";</pre>
       while(fin.read((char*)&rec,sizeof(stud)))
              if(rec.roll!=-1)
              cout<<"\n\t"<<rec.roll<<"\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 :";</pre>
       cin>>r:
       while(fin.read((char*)&rec,sizeof(stud)))
              if(rec.roll==r)
                     cout<<"\n\tRecord Found...\n";</pre>
                     cout<<"\n\tRoll\tName\tDiv\tAddress";</pre>
       cout<<"\n\t"<<rec.roll<<"\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";</pre>
               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";</pre>
int main()
{
       student obj;
       int ch,key;
       char ans;
       do
       {
               cout<<"\n\t***** Student Information *****";</pre>
               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";</pre>
                               break;
                       case 5:
                              break;
               cout<<"\n\t.... Do You Want to Continue in Main Menu: ";
               cin>>ans;
        }while(ans=='y'||ans=='Y');
       return 1;
```

```
}
Output:
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 1
Enter Roll no of Student:1
Enter Name of Student:Om
Enter Division of Student : A
Enter Address of Student : Nashik
Do you want to add more Records:y
Enter Roll no of Student :2
Enter Name of Student: Aditya
Enter Division of Student: C
Enter Address of Student :Pune
Do you want to add more Records:n
..... Do You Want to Continue in Main Menu: y
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 2
The Content of File are:
Roll
       Name Div
                     Address
1
       Om
              A
                     Nashik
2
       Aditya C
                     Pune
..... Do You Want to Continue in Main Menu: y
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 3
Enter a Roll No:1
Record Found...
       Name Div
                     Address
Roll
              A
       Om
                     Nashik
..... Do You Want to Continue in Main Menu: y
```

```
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 3
Enter a Roll No:2
Record Found...
Roll
       Name Div
                     Address
       Aditya C
                     Pune
Record Deleted
..... Do You Want to Continue in Main Menu: y
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 2
The Content of File are:
       Name Div
Roll
                     Address
                     Nashik
1
       Om
              A
..... Do You Want to Continue in Main Menu: y
***** Student Information *****
1. Create
2. Display
3. Delete
4. Search
5. Exit
..... Enter Your Choice: 5
..... Do You Want to Continue in Main Menu:
```