Student Registration Project using C++

```
#include<iostream>
#include<string>
#include<stdlib.h>
using namespace std;
void Add_Student();
void Display();
void Search_Student(int searchKey);
void Upadte_Student(int IDNUmbe);
void Delete(int DeleteKey);
void Sort();
     int NoStud;
struct Student
string FName;
string LName;
int id;
string Dep;
};
Student Stud[50];
int main()
```

```
int Choice=0;
cout<<"Enter the number of studnts tha u wanna regitre:";
cin>>NoStud;
while(Choice!=7){
       cout<<"\nWhat u want to do?"<<endl;
       cout<<"/////"<<endl;
       cout<<"Press 1......To Add New Student"<<endl;
       cout<<"Press 2......to Display Student Data"<<endl;</pre>
       cout << "Press 3......To Search Student Data" << endl;
       cout<<"Press 4......To Upadete Student Data"<<endl;</pre>
       cout<<"Press 5......To Delete Stuent data"<<endl;</pre>
       cout<<"Press 6......To Sotr Students based On their Id Number"<<endl;
       cout << "Press 7......to Exit" << endl;
       cout<<"////"<<endl;
       cout<<"Ente Yuor CHooice"<<endl;
       cin>>Choice;
switch(Choice){
       case 1: Add_Student();
       break;
       case 2:Display();
       break;
       case 3:int serch_id;
              cout<<"Enter the id of the student tha u want to search:"<<endl;
              cin>>serch_id;
              Search_Student(serch_id);
```

```
break;
case 4:
      int Id_to_update;
             cout<<"Enter the id of the student tha u want to Update:"<<endl;
             cin>>Id_to_update;
      Upadte_Student(Id_to_update);
      break;
case 5:
      int Id_To_Delete;
      cout<<"Enter the ID of the student that you want to delete:";
      cin>>Id_To_Delete;
      Delete(Id_To_Delete);
      break;
case 6:
      Sort();
      break;
case 7:
      exit(1);
      break;
default:
      Choice!+++++\n******************************;
      }
}
}
void Add_Student()
```

```
{
       for(int i=1;i \le NoStud;i++){
       cout<<"Enter the Idedntity Card Of Student: "<<i<<endl;</pre>
       cin>>Stud[i].id;
       cout<<"Enter the Fname Of Student: "<<i<<endl;</pre>
       cin>>Stud[i].FName;
       cout<<"Enter the Lname Of Student: "<<i<<endl;</pre>
       cin>>Stud[i].LName;
       cout<<"Enter the Department Of Student: "<<i<<endl;</pre>
       cin>>Stud[i].Dep;
       }
cout<<"*******************\n++++Adding
}
void Display(){
       cout<<"ID"<<" "<<"FIRST NAME"<<" "<<"LAST NAME"<<"
"<<"DEPARTMENT"<<endl;
       cout<<"
                                                                                   "<<endl;
       for(int i=1;i \le NoStud;i++){
              cout<<Stud[i].id<<"\t";</pre>
              cout<<Stud[i].FName<<"\t";
              cout <<\!\!Stud[i].LName <<\!\!"\backslash t";
              cout<<Stud[i].Dep<<endl;</pre>
       }
       }
```

```
void Search_Student(int searchKey){
int founded_id;
int use=0;
for (int i=1;i \le NoStud;i++){
       if(Stud[i].id==searchKey)
       {
              use=1;
              founded_id=i;
       }
}
if(use==1){
       cout<<"ID"<<" "<<"FIRST NAME"<<" "<<"LAST NAME"<<"
"<<"DEPARTMENT"<<endl;
                                                                                      _"<<endl;
       cout<<"____
              cout<<Stud[founded_id].id<<"\t";</pre>
              cout<<Stud[founded_id].FName<<"\t";</pre>
              cout<<Stud[founded_id].LName<<"\t";</pre>
              cout<<Stud[founded_id].Dep;</pre>
}
else
       cout<<"***************************\nTher is no student With this ID, Please enter
the valid Id!\n*****************************
}
void Upadte_Student(int IDNUmbe)
```

```
int Founded_id_to_Update;
int use=0;
for (int i=1;i \le NoStud;i++){
       if(Stud[i].id==IDNUmbe)
       {
               use=1;
               Founded_id_to_Update=i;
       }
}
if(use==1)
       int new_id;
       string new_FName, new_LName, New_Dep;
       cout<<"Enter the new Detail of the Student."<<endl;
       cout<<"Enter new_id Number:";</pre>
       cin>>new_id;
       cout<<"Enter new_First Name:";</pre>
       cin>>new_FName;
       cout<<"Enter new_Last Name:";</pre>
       cin>>new_LName;
       cout<<"Enter new_Departiment:";</pre>
       cin>>New_Dep;
       Stud[Founded_id_to_Update].id=new_id;
```

```
Stud[Founded_id_to_Update].FName=new_FName;
     Stud[Founded_id_to_Update].LName=new_LName;
     Stud[Founded_id_to_Update].Dep=New_Dep;
cout<<"****************\n+++Updating
}
else
}
}
void Delete(int DeleteKey)
{
int Founded_id_to_Delete;
int use=0;
for (int i=1;i \le NoStud;i++){
    if(Stud[i].id==DeleteKey)
     {
          use=1;
          Founded_id_to_Delete=i;
     }
}
if(use==1)
```

```
{
     for(int k=Founded_id_to_Delete;k<=NoStud;k++)</pre>
     {
          Stud[k].id=Stud[k+1].id;
          Stud[k].FName=Stud[k+1].FName;
          Stud[k].LName=Stud[k+1].LName;
          Stud[k].Dep=Stud[k+1].Dep;
     }
cout<<"********************\n+++Deleting
}
else
{
     }
void Sort()
     int tempId;
     string tempFName, tempLName, tempDep;
for(int i=1; i<=NoStud;i++)</pre>
{
     for(int j=1; j \le NoStud; j++)
     {
          if(Stud[i].id<Stud[j].id)</pre>
          {
```

```
tempId=Stud[i].id;
          Stud[i].id=
                     Stud[j].id;
          Stud[j].id=tempId;
          tempFName=Stud[i].FName;
          Stud[i].FName=Stud[j].FName;
          Stud[j].FName=tempFName;
          tempLName=Stud[i].LName;
          Stud[i].LName=Stud[j].LName;
          Stud[j].LName=tempLName;
   tempDep=Stud[i].Dep;
          Stud[i].Dep=Stud[j].Dep;
          Stud[j].Dep=tempDep;
           }
     }
}
see the sorted data+++++\n*****************;
}
```