INPUT:

```cpp
#include<iostream>
#include<fstream>
using namespace std;

class seq_file{
    struct stud{
        int roll;
        string name;
    }s;
    int i; //count var
public:
    void create();
    void display();
    void search();
    void modify();
    void del();
};
void seq_file::create()
{
    ofstream out;
    out.open("student.data", ios::out|ios::binary);
    char ans='y';
    i=0;
    do{
        cout<<"\nEnter Details of Student Record "<<i+1<<" below: ";
        cout<<"\nEnter roll number: ";
        cin>>s.roll;
        cout<<"Enter Name: ";
        cin>>s.name;
        out.write((char *)&s,sizeof(s));
        i++;
        cout<<"\nDo you want to continue(Y/N): ";
        cin>>ans;
    }while(ans=='y'||ans=='Y');
    out.close();
    cout<<"\n\tSuccessfully Entered "<<i<<" records in file.";
}

void seq_file::display()
{
    ifstream in;
    in.open("student.data", ios::in|ios::binary);
    i=0;
    while(in.read((char *)&s,sizeof(s))){
        cout<<"\nDetails of Student Record "<<i+1<<" are:";
        cout<<"\nName: "<<s.name;
        cout<<"\nRoll number: "<<s.roll<<endl;
        i++;
    }
    in.close();
```

```cpp
        cout<<"\n\tSuccessfully Displayed "<<i<<" Records from File.";
}
void seq_file::search()
{
    int key, flag=0;
    cout<<"\nEnter roll number to search: ";
    cin>>key;
    ifstream in;
    in.open("student.data", ios::binary);
    while(in.read((char *)&s, sizeof(s)))
    {
        if(s.roll==key)
        {
            flag=1;
            break;
        }
    }
    if(flag==1)
        cout<<"\nRecord found in File with name: "<<s.name;
    else
        cout<<"\nRecord not found!";
}
void seq_file::del()
{
    int key;
    cout<<"\nEnter roll number to delete respective record: ";
    cin>>key;
    ifstream in;
    ofstream out;
    in.open("student.data",ios::binary);
    out.open("temp.data",ios::binary);
    while(in.read((char*)&s, sizeof(s)))
        if(s.roll!=key)
            out.write((char*)&s, sizeof(s));
    in.close();
    out.close();
    remove("student.data");
    if(!rename("temp.data","student.data"))
        cout<<"\nDeletion successful";
    else
        cout<<"\nDeletion failed while renaming new file.";
}
void seq_file::modify()
{
    int key, flag=0;
    string nm;
    cout<<"\nEnter roll number to be modified: ";
    cin>>key;
    cout<<"\nEnter new name to be recorded: ";
    cin>>nm;
    fstream x;
```

```cpp
    x.open("student.data",ios::in|ios::out|ios::binary);
    while(x.read((char*)&s, sizeof(s)))
    {
       if(s.roll==key)
       {
          flag=1;
          x.seekp(x.tellg()-sizeof(s));
          s.name=nm;
          x.write((char*)&s, sizeof(s));
          break;
       }
    }
    if(flag==1)
       cout<<"\nChange was successful!";
    else
       cout<<"\nRecord not found!";
}
int main()
{
    int ch;
    seq_file obj;
    while(true)
    {
       cout<<"\n*************MENU**************";
       cout<<"\n\t1.Create File";
       cout<<"\n\t2.Display File";
       cout<<"\n\t3.Search in File";
       cout<<"\n\t4.Modify File Entry";
       cout<<"\n\t5.Delete File record";
       cout<<"\n\t6.Exit";
       cout<<"\nEnter your choice: ";
       cin>>ch;
       switch(ch)
       {
          case 1: obj.create();
                break;
          case 2: obj.display();
                break;
          case 4: obj.modify();
                break;
          case 3: obj.search();
                break;
          case 5: obj.del();
                break;
          case 6: cout<<"\nProgram ends!";
                return 0;
          default: cout<<"\nEntered invalid choice number, try again... ";
                 break;
       }
    }
}
```

OUTPUT:
**************MENU**************
        1.Create File
        2.Display File
        3.Search in File
        4.Modify File Entry
        5.Delete File record
        6.Exit
Enter your choice: 1

Enter Details of Student Record 1 below:
Enter roll number: 40
Enter Name: Monik

Do you want to continue(Y/N): Y

Enter Details of Student Record 2 below:
Enter roll number: 48
Enter Name: Sanjhari

Do you want to continue(Y/N): y

Enter Details of Student Record 3 below:
Enter roll number: 62
Enter Name: Atharva

Do you want to continue(Y/N): Y

Enter Details of Student Record 4 below:
Enter roll number: 56
Enter Name: Divyam

Do you want to continue(Y/N): n

        Successfully Entered 4 records in file.
**************MENU**************
        1.Create File
        2.Display File
        3.Search in File
        4.Modify File Entry
        5.Delete File record
        6.Exit
Enter your choice: 2

Details of Student Record 1 are:
Name: Monik
Roll number: 40

Details of Student Record 2 are:
Name: Sanjhari
Roll number: 48

Details of Student Record 3 are:
Name: Atharva
Roll number: 62

Details of Student Record 4 are:
Name: Divyam
Roll number: 56

Successfully Displayed 4 Records from File.
**************MENU**************
1.Create File
2.Display File
3.Search in File
4.Modify File Entry
5.Delete File record
6.Exit
Enter your choice: 3

Enter roll number to search: 48

Record found in File with name: Sanjhari
**************MENU**************
1.Create File
2.Display File
3.Search in File
4.Modify File Entry
5.Delete File record
6.Exit
Enter your choice: 4

Enter roll number to be modified: 62

Enter new name to be recorded: Todkary

Change was successful!
**************MENU**************
1.Create File
2.Display File
3.Search in File
4.Modify File Entry
5.Delete File record
6.Exit
Enter your choice: 2

Details of Student Record 1 are:
Name: Monik
Roll number: 40

Details of Student Record 2 are:
Name: Sanjhari

Roll number: 48

Details of Student Record 3 are:
Name: Todkary
Roll number: 62

Details of Student Record 4 are:
Name: Divyam
Roll number: 56

		Successfully Displayed 4 Records from File.
**************MENU**************
		1.Create File
		2.Display File
		3.Search in File
		4.Modify File Entry
		5.Delete File record
		6.Exit
Enter your choice: 5

Enter roll number to delete respective record: 56

Deletion successful
**************MENU**************
		1.Create File
		2.Display File
		3.Search in File
		4.Modify File Entry
		5.Delete File record
		6.Exit
Enter your choice: 2

Details of Student Record 1 are:
Name: Monik
Roll number: 40

Details of Student Record 2 are:
Name: Sanjhari
Roll number: 48

Details of Student Record 3 are:
Name: Todkary
Roll number: 62

		Successfully Displayed 3 Records from File.
**************MENU**************
		1.Create File
		2.Display File
		3.Search in File
		4.Modify File Entry
		5.Delete File record

6.Exit
Enter your choice: 6

Program ends!