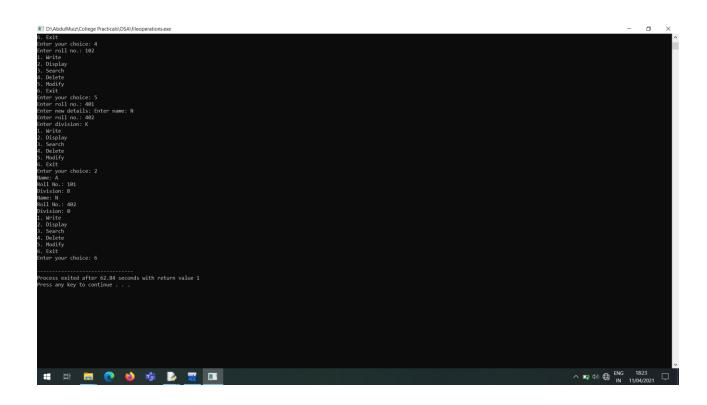
```
Name: Abdulmuiz Khalid Shaikh
Roll no.:2101062
Subject: Data Structure and Algorithm Laboratory
Assignment No.11
#include <iostream>
#include <fstream>
#include <cstdlib>
using namespace std;
class Student
public:
int rollno;
char name[20];
char dv;
void get()
cout<<"Enter name: ";</pre>
cin>>name;
cout<<"Enter roll no.: ";</pre>
cin>>rollno;
cout<<"Enter division: ";</pre>
cin>>dv;
}
void put()
cout<<"Name: "<<name<<endl;
cout<<"Roll No.: "<<rollno<<endl;</pre>
cout<<"Division: "<<dv<<endl;</pre>
int getroll()
return rollno;
};
```

```
void write record()
ofstream outFile;
Student obj;
outFile.open("student.dat", ios::binary | ios::app);
obj.get();
outFile.write((char*)&obj, sizeof(obj));
outFile.close();
void display_record()
{
ifstream inFile;
Student obj;
inFile.open("student.dat", ios::binary);
while(inFile.read((char*)&obj, sizeof(obj)))
obj.put();
inFile.close();
}
void search_record(int n)
{
ifstream inFile;
Student obj;
inFile.open("student.dat", ios::binary);
while(inFile.read((char*)&obj, sizeof(obj)))
if(obj.getroll() == n)
obj.put();
break;
```

```
}
inFile.close();
void delete record(int n)
Student obj;
ifstream inFile;
inFile.open("student.dat", ios::binary);
ofstream outFile;
outFile.open("temp.dat", ios::binary | ios::out);
while(inFile.read((char*)&obj, sizeof(obj)))
{
if(obj.getroll() != n)
outFile.write((char*)&obj, sizeof(obj));
}
inFile.close();
outFile.close();
remove("student.dat");
rename("temp.dat", "student.dat");
}
void modify_record(int n)
fstream file;
file.open("student.dat", ios::in | ios::out);
Student obj;
while(file.read((char*)&obj, sizeof(obj)))
if(obj.getroll() == n)
cout<<"Enter new details: ";
obj.get();
int pos = -1*sizeof(obj);
```

```
file.seekp(pos,ios::cur);
file.write((char*)&obj, sizeof(obj));
}
}
file.close();
int main()
int ch, n;
while(true)
cout<<"1. Write"<<endl;
cout<<"2. Display"<<endl;
cout<<"3. Search"<<endl;
cout<<"4. Delete"<<endl;
cout<<"5. Modify"<<endl;
cout<<"6. Exit"<<endl;
cout<<"Enter your choice: ";</pre>
cin>>ch;
switch(ch)
case 1: cout<<"Enter no. of records: ";
cin>>n;
for(int i=0; i<n; i++)
write_record();
break;
case 2: display_record();
break;
case 3: cout<<"Enter roll no.: ";
cin>>n;
search record(n);
break;
case 4: cout<<"Enter roll no.: ";</pre>
cin>>n;
delete_record(n);
break;
case 5: cout<<"Enter roll no.: ";</pre>
cin>>n;
modify_record(n);
```



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