```
/*
Name: Amit Bandu Swami
Roll No. 2221018
Assignment No. 03
Title: Student Database
*/
//Program
#include<iostream>
#include<string.h>
using namespace std;
class student
{
char name[10];
int roll_no;
int age;
int marks;
char branch[10];
public:
void input()
cout<<"Enter name:"<<endl;
cin>>name;
cout<<"Enter roll no:"<<endl;
cin>>roll no;
cout<<"Age:"<<endl;
cin>>age;
cout<<"Enter marks:"<<endl;
cin>>marks;
cout<<"Enter branch:"<<endl;
cin>>branch;
void output();
friend void search(student *);
friend void remove(student *);
friend void update(student *);
student();
};
student::student()
strcpy(name,"-99");
roll no=-99;
age=-99;
marks=-99;
```

```
strcpy(branch,"-99");
}
void search(student *S)
int i;
char name[10];
int flag=0;
cout<<"\nEnter the name to search:";
cin>>name;
for(i=0;i<=4;i++)
if(strcmp(name,S[i].name)==0)
cout<<"Found the Information in database"<<endl;
flag=1;
break;
}
if(flag==0)
cout<<"No Information with respect to name entered"<<endl;</pre>
void remove(student *S)
{
int i;
char name[10];
int flag=0;
student temp;
cout<<"\nEnter the name to delete:";
cin>>name;
for(i=0;i<=4;i++)
if(strcmp(name,S[i].name)==0)
cout<<"Found the Information in database"<<endl;
strcpy(S[i].name,temp.name);
S[i].roll_no=temp.roll_no;
S[i].age=temp.age;
S[i].marks=temp.marks;
strcpy(S[i].branch,temp.branch);
flag=1;
break;
}
```

```
if(flag==0)
cout<<"No Information with resepct to name entered"<<endl;</pre>
void update (student *S)
int i;
char name[10];
int flag=0;
cout<<"Enter the name to search:"<<endl;
cin>>name;
for(i=0;i<=4;i++)
if(strcmp(name,S[i].name)==0)
cout<<"Found the Information in database"<<endl;
cout<<"Enter the new name for this"<<endl;
cin>>S[i].name;
flag=1;
break;
}
if(flag==0)
cout<<"No Information with resepct to name entered"<<endl;</pre>
void student::output()
if(age!=-99)
cout<<"\n"<<name<<" "<<roil_no<<" "<<age<< " "<<marks<<" "<<br/>branch;
int main()
{
int i;
int ch;
student T[5];
while(1)
{
cout<<"\n MENU"<<endl;
cout<<"1. Add Information"<<endl;
cout<<"2. Display Information"<<endl;</pre>
```

```
cout<<"4. Delete Information"<<endl;
cout<<"5. Update information"<<endl;
cout<<"6. Exit"<<endl;
cout<<"\n Enter choice:"<<endl;</pre>
cin>>ch;
switch(ch)
{
case 1:
for(i=0; i<=4; i=i+1)
T[i].input();
break;
case 2: cout<<"\nHere is the information";
for(i=0; i<=4; i=i+1)
T[i].output();
break;
case 3: search(T);
break;
case 4: remove(T);
break;
case 5: remove(T);
(T);
break;
default:
exit(0);
}
}
}
Output
MENU
1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit
Enter choice:
Enter name:
Harry
Enter roll no:
01
Age:
```

cout<<"3. Search Information"<<endl;

18
Enter marks:
93
Enter branch:
IT
Enter name:
Lily
Enter roll no:
02
Age:
18
Enter marks:
90
Enter branch:
IT
Enter name:
John
Enter roll no:
03
Age:
17
Enter marks:
80
Enter branch:
CS
Enter name:
Steve
Enter roll no:
04
Age:
18
Enter marks:
85
Enter branch:
CS
Enter name: David
Enter roll no: 05
Age:
Age. 17
Enter marks:
87
Enter branch:
Entor Dianon.

ΙT

MENU

- 1. Add Information
- 2. Display Information
- 3. Search Information
- 4. Delete Information
- 5. Update information
- 6. Exit

Enter choice:

2

Here is the information

Harry 1 18 93 IT

Lily 2 18 90 IT

John 3 17 80 CS

Steve 4 18 85 CS

David 5 17 87 IT

MENU

- 1. Add Information
- 2. Display Information
- 3. Search Information
- 4. Delete Information
- 5. Update information
- 6. Exit

Enter choice:

3

Enter the name to search:David

Found the Information in database

MENU

- 1. Add Information
- 2. Display Information
- 3. Search Information
- 4. Delete Information
- 5. Update information
- 6. Exit

Enter choice:

1

Enter the name to delete:Lily

Found the Information in database

MENU

- 1. Add Information
- 2. Display Information
- 3. Search Information
- 4. Delete Information
- 5. Update information

6. Exit

Enter choice:

5

Enter the name to delete:John

Found the Information in database

MENU

- 1. Add Information
- 2. Display Information
- 3. Search Information
- 4. Delete Information
- 5. Update information
- 6. Exit

Enter choice:

6

*/