Experiment 3:

(a)To update the details of a student using a member function of student class.

Program: #include<iostream>

using namespace std;

class student{

   private: string name,email,dept,fathername;

   int rollno,age,phone,sem;

   public: void input(){

      cout<<"Enter the student name:";

      cin>>name;

      cout<<"Enter the email:";

      cin>>email;

      cout<<"Enter the department:";

      cin>>dept;

      cout<<"Enter the student father name:";

      cin>>fathername;

      cout<<"Enter rollnumber:";

      cin>>rollno;

      cout<<"Enter age:";

```cpp
        cin>>age;
        cout<<"Enter phone number:";
        cin>>phone;
        cout<<"enter semester:";
        cin>>sem;
    cout<<endl;
}
void display(){
    cout<<"Student name:"<<name<<endl;
    cout<<"Student email:"<<email<<endl;
    cout<<"Student department:"<<dept<<endl;
    cout<<"Student father name:"<<fathername<<endl;
    cout<<"Student Rollnumber:"<<rollno<<endl;
    cout<<"Student Age:"<<age<<endl;
    cout<<"Student phone number:"<<phone<<endl;
    cout<<"Student Semester:"<<sem<<endl;
}
void update(){
    cout<<"--------->Updated Info<----------"<<endl;
    cout<<"Enter the student name:";
        cin>>name;
```

```cpp
        cout<<"Enter the email:";
        cin>>email;
        cout<<"Enter the department:";
        cin>>dept;
        cout<<"Enter the student father name:";
        cin>>fathername;
        cout<<"Enter rollnumber:";
        cin>>rollno;
        cout<<"Enter age:";
        cin>>age;
        cout<<"Enter phone number:";
        cin>>phone;
        cout<<"enter semester:";
        cin>>sem;
        cout<<endl;
    }
    void clear(){
        name="";
        email="";
        dept="";
        fathername="";
```

```cpp
            rollno=0;
            age=0;
            phone=0;
            sem=0;
        }
};
    int main(){
        student s;
        while(1)
        {
            cout<<"\nChoose operation you want to perform";
            cout<<"\nPress 1 to insert record of student";
            cout<<"\nPress 2 to update record";
            cout<<"\nPress 3 if you want to Display record";
            cout<<"\nPress 4 to exit";
            cout<<"\nEnter your choice:";

            int ch;
            cin>>ch;
            switch(ch)
{
```

```cpp
        case 1:
        s.input();
        break;

        case 2:
        s.update();
        break;

        case 3:
        s.display();
        break;

        case 4:
        goto out;

        default:
        cout<<"----->invalid choice<-----";
        break;
    }
        }
        out:
```

```
    return 0;
};
```

```
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Enter your choice:1
Enter the student name:xyz
Enter the email:xyz@gmail.com
Enter the department:cse
Enter the student father name:abc
Enter rollnumber:123
Enter age:20
Enter phone number:87654321
enter semester:4


Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Enter your choice:3
Student name:xyz
Student email:xyz@gmail.com
Student department:cse
Student father name:abc
Student Rollnumber:123
Student Age:20
Student phone number:87654321
Student Semester:4
```

```
Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Enter your choice:2
--------->Updated Info<----------
Enter the student name:xyz
Enter the email:xyz@gmail.com
Enter the department:cse
Enter the student father name:abc
Enter rollnumber:128
Enter age:20
Enter phone number:87654321
enter semester:5


Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Enter your choice:3
Student name:xyz
Student email:xyz@gmail.com
Student department:cse
Student father name:abc
Student Rollnumber:128
Student Age:20
Student phone number:87654321
Student Semester:5
```

(b)To delete the details of student using a member function of student class.

Program: #include<iostream>

using namespace std;

```cpp
class student{
 private: string name,email,dept,fathername;
int rollno,age,phone,sem;
public: void input(){
 cout<<"Enter the student name:";
 cin>>name;
 cout<<"Enter the email:";
 cin>>email;
 cout<<"Enter the department:";
 cin>>dept;
 cout<<"Enter the student father name:";
cin>>fathername;
 cout<<"Enter rollnumber:";
 cin>>rollno;
 cout<<"Enter age:";
 cin>>age;
 cout<<"Enter phone number:";
 cin>>phone;
 cout<<"enter semester:";
 cin>>sem;
 cout<<endl;
```

```cpp
}
void display(){
cout<<"Student name:"<<name<<endl;
cout<<"Student email:"<<email<<endl;
cout<<"Student department:"<<dept<<endl;
cout<<"Student father name:"<<fathername<<endl;
cout<<"Student Rollnumber:"<<rollno<<endl;
cout<<"Student Age:"<<age<<endl;
cout<<"Student phone number:"<<phone<<endl;
cout<<"Student Semester:"<<sem<<endl;
}
void update(){
cout<<"--------->Updated Info<----------"<<endl;
cout<<"Enter the student name:";
cin>>name;
cout<<"Enter the email:";
cin>>email;
cout<<"Enter the department:";
cin>>dept;
cout<<"Enter the student father name:";
cin>>fathername;
cout<<"Enter rollnumber:";
```

```cpp
cin>>rollno;
cout<<"Enter age:";
cin>>age;
cout<<"Enter phone number:";
cin>>phone;
cout<<"enter semester:";
cin>>sem;
cout<<endl;
}
void clear(){
name="";
email="";
dept="";
fathername="";
rollno=0;
age=0;
phone=0;
sem=0;
}
};
int main(){
```

```cpp
student s;
while(1)
{
cout<<"\nChoose operation you want to perform";
cout<<"\nPress 1 to insert record of student";
cout<<"\nPress 2 to update record";
cout<<"\nPress 3 if you want to Display record";
cout<<"\nPress 4 to exit";
cout<<"\nPress 5 to delete record:";
cout<<"\nEnter your choice:";
int ch;
cin>>ch;
switch(ch)
{
case 1:
s.input();
break;
case 2:
s.update();
break;
case 3:
```

```cpp
s.display();
break;
case 4:
goto out;
case 5:
s.clear();
break;
default:
cout<<"----->invalid choice<-----";
break;
}
}
out:
return 0;
};
```

```
Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Press 5 to delete record:
Enter your choice:1
Enter the student name:abc
Enter the email:abc@gmail.com
Enter the department:cse
Enter the student father name:xyz
Enter rollnumber:123
Enter age:20
Enter phone number:87654321
enter semester:4


Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Press 5 to delete record:
Enter your choice:3
Student name:abc
Student email:abc@gmail.com
Student department:cse
Student father name:xyz
Student Rollnumber:123
Student Age:20
Student phone number:87654321
Student Semester:4
```

```
Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Press 5 to delete record:
Enter your choice:5

Choose operation you want to perform
Press 1 to insert record of student
Press 2 to update record
Press 3 if you want to Display record
Press 4 to exit
Press 5 to delete record:
Enter your choice:3
Student name:
Student email:
Student department:
Student father name:
Student Rollnumber:0
Student Age:0
Student phone number:0
Student Semester:0
```