

```
1 namespace HospitalManagementSystem
2 {
3     public class Doctor : MedicalStaff, IObservable
4     {
5         public Doctor(string name, string contact, DateTime dob, string
            workingHours, string experience):base(name, contact, dob,
            workingHours, experience)
6         {
7         }
8
9         public void Update(Patient patient)
10        {
11            Console.WriteLine($"Doctor {Name} has been notified of the
            patient's update: {patient.Name}");
12
13            Console.WriteLine($"Updated Symptoms: {string.Join(", ",
            patient.Symptoms)}");
14        }
15
16        public override void Diagnose()
17        {
18            Console.WriteLine($"Doctor {Name} is diagnosing the patient.");
19        }
20
21        public override void ProvideTreatment()
22        {
23            Console.WriteLine($"Doctor {Name} is providing treatment.");
24        }
25    }
26
27 }
28
```