```
1 using System;
2 using System.Collections.Generic;
4 namespace HospitalManagementSystem
 5 {
 6
       public class Patient : Person
7
8
           private List<IObserver> _observers = new List<IObserver>();
9
10
           public Patient(string name, DateTime dob, string contact, string[] >
              symptoms):base(name, contact, dob)
            Ş
11
12
                Symptoms = symptoms;
13
           }
14
15
           public string[] Symptoms
16
17
                get;
18
                set;
           }
19
20
21
           public void AttachObserver(IObserver observer)
22
                if (!_observers.Contains(observer))
23
24
25
                    _observers.Add(observer);
                }
26
27
            }
28
           public void DetachObserver(IObserver observer)
29
30
                if (_observers.Contains(observer))
31
32
                {
                    _observers.Remove(observer);
33
34
                }
35
           }
36
37
           public void Notify()
38
                foreach (var observer in _observers)
39
40
41
                    observer.Update(this); // Passing the patient data to the
                      observers
42
                }
43
           }
44
       }
45 }
46
```