

```

1 using HospitalManagementSystem;
2
3 public class MedicalStaffDecorator : MedicalStaff
4 {
5     private MedicalStaff _medical_staff;
6     private string _expertise;
7
8     public MedicalStaffDecorator(MedicalStaff medical_staff, string expertise) : base(medical_staff.Name, medical_staff.Contact, medical_staff.DOB, medical_staff.WorkingHours, medical_staff.Experience)
9     {
10         _medical_staff = medical_staff;
11         _expertise = expertise;
12     }
13
14     public override void Diagnose()
15     {
16         _medical_staff.Diagnose();
17         Console.WriteLine($"Specialist in {_expertise} is diagnosing the patient.");
18     }
19
20     public override void ProvideTreatment()
21     {
22         _medical_staff.ProvideTreatment();
23         Console.WriteLine($"Specialist in {_expertise} is providing treatment.");
24     }
25 }
26

```