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// Interface representing medical treatments
interface MedicalTreatment {
    void prescribeMedication(String medication);

    void performSurgery(String surgeryType);
}

// Doctor class implementing MedicalTreatment interface
class Doctor implements MedicalTreatment {
    private String name;

    public Doctor(String name) {
        this.name = name;
    }

    @Override
    public void prescribeMedication(String medication) {
        System.out.println("Doctor " + name + " prescribes " + medication);
    }

    @Override
    public void performSurgery(String surgeryType) {
        System.out.println("Doctor " + name + " performs " + surgeryType + " surgery");
    }
}

// Patient class implementing MedicalTreatment interface
class Patient implements MedicalTreatment {
    private String name;

    public Patient(String name) {
        this.name = name;
    }

    @Override
    public void prescribeMedication(String medication) {
        System.out.println("Patient " + name + " is prescribed " + medication);
    }

    @Override
    public void performSurgery(String surgeryType) {
        System.out.println("Patient " + name + " undergoes " + surgeryType + " surgery");
    }
}

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// Hospital class implementing MedicalTreatment interface
class Hospital implements MedicalTreatment {
    private String hospitalName;

    public Hospital(String hospitalName) {
        this.hospitalName = hospitalName;
    }

    @Override
    public void prescribeMedication(String medication) {
        System.out.println("Hospital " + hospitalName + " prescribes " + medication);
    }

    @Override
    public void performSurgery(String surgeryType) {
        System.out.println("Hospital " + hospitalName + " performs " + surgeryType + " surgery");
    }
}

public class MedicalInterfaceExample1 {
    public static void main(String[] args) {
        // Example usage
        Doctor doctor = new Doctor("Manohar");
        Patient patient = new Patient("Prajwal");
        Hospital hospital = new Hospital("Apollo");

        // Doctor, Patient, and Hospital can all perform medical treatments
        doctor.prescribeMedication("Painkillers");
        patient.performSurgery("Heart surgery");
        hospital.prescribeMedication("Antibiotics");
    }
}

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