

//Task 02 : Person → Doctor, Teacher, Engineer (Hierarchical Inheritance)

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class Person {
    void displayInfo() {
        System.out.println("This is a person.");
    }
}

class Doctor extends Person {
    void duty() {
        System.out.println("Doctor's duty: Treat patients.");
    }
}

class Teacher extends Person {
    void duty() {
        System.out.println("Teacher's duty: Teach students.");
    }
}

class Engineer extends Person {
    void duty() {
        System.out.println("Engineer's duty: Build projects.");
    }
}

public class ProfessionMain {
    public static void main(String[] args) {
        Doctor doc = new Doctor();
        Teacher teach = new Teacher();
        Engineer eng = new Engineer();

        doc.displayInfo();
        doc.duty();

        System.out.println();

        teach.displayInfo();
        teach.duty();

        System.out.println();

        eng.displayInfo();
        eng.duty();
    }
}
```