## **Problem 3: Student Information System (Hard Level)**

## **Description:**

Design a **student information system** using Java with the following features:

- Abstract class Person with attributes name, age
- Derived classes Student (with roll number) and Teacher (with subject)
- **Override** displayDetails()

## Code:

```
abstract class Person {
   public Student(String name, int age, int rollNumber) {
       super(name, age);
       this.rollNumber = rollNumber;
       System.out.println("Name: " + name);
       System.out.println("Age: " + age);
       System.out.println("Roll Number: " + rollNumber);
   public Teacher(String name, int age, String subject) {
       System.out.println("Teacher Details:");
       System.out.println("Name: " + name);
       System.out.println("Age: " + age);
       System.out.println("Subject: " + subject);
public class StudentInfoSystem {
   public static void main(String[] args) {
       student.displayDetails();
       System.out.println();
       teacher.displayDetails();
```

## Output:

