**Exercise 10: Implementing the MVC Pattern**

public class Main {

    public static void main(String[] args) {

        Student model = new Student("S001", "Shree", "A+");

        StudentView view = new StudentView();

        StudentController controller = new StudentController(model, view);

        controller.updateView();

        controller.setStudentName("Ananthika");

        controller.setStudentGrade("A");

        controller.updateView();

    }

}

class Student {

    private String id;

    private String name;

    private String grade;

    public Student(String id, String name, String grade) {

        this.id = id;

        this.name = name;

        this.grade = grade;

    }

    public String getId() {

        return id;

    }

    public String getName() {

        return name;

    }

    public String getGrade() {

        return grade;

    }

    public void setName(String name) {

        this.name = name;

    }

    public void setGrade(String grade) {

        this.grade = grade;

    }

}

class StudentView {

    public void displayStudentDetails(String id, String name, String grade) {

        System.out.println("Student ID: " + id);

        System.out.println("Student Name: " + name);

        System.out.println("Student Grade: " + grade);

        System.out.println();

    }

}

class StudentController {

    private Student model;

    private StudentView view;

    public StudentController(Student model, StudentView view) {

        this.model = model;

        this.view = view;

    }

    public void setStudentName(String name) {

        model.setName(name);

    }

    public void setStudentGrade(String grade) {

        model.setGrade(grade);

    }

    public void updateView() {

        view.displayStudentDetails(model.getId(), model.getName(), model.getGrade());

    }

}

Output:

