```java
import java.util.Scanner;
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 void setId(String id) { this.id = id; }

    public String getName() { return name; }
    public void
    public Strin          StudentView
    public void              public void displayStudentDetails(String id,
                                                                String name,
                                                                String grade)
}
class StudentVie          void StudentView.displayStudentDetails(String id, String name, String grade)
    public void displayStudentDetails(String id, String name, String grade) {
        System.out.println(x:"\n----- Student Details -----");
        System.out.println("ID     : " + id);
        System.out.println("Name  : " + name);
        System.out.println("Grade : " + grade);
        System.out.println(x:"---------------------------");
    }
}
```

```java
    }
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 setStudentId(String id) {
        model.setId(id);
    }
    public void setStudentGrade(String grade) {
        model.setGrade(grade);
    }
    public void updateView() {
        view.displayStudentDetails(model.getId(), model.getName(), model.getGrade());
    }
}
public class MVCPattern {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print(s:"Enter Student ID: ");
        String id = scanner.nextLine();
        System.out.print(s:"Enter Student Name: ");
        String name = scanner.nextLine();
```

```java
public class MVCPattern {
    public static void main(String[] args) {
        System.out.print(s:"Enter Student Name: ");
        String name = scanner.nextLine();
        System.out.print(s:"Enter Student Grade: ");
        String grade = scanner.nextLine();
        Student student = new Student(id, name, grade);
        StudentView view = new StudentView();
        StudentController controller = new StudentController(student, view);
        controller.updateView();
        System.out.println(x:"\nUpdate Student Details:");

        System.out.print(s:"Enter New Name: ");
        String newName = scanner.nextLine();
        controller.setStudentName(newName);

        System.out.print(s:"Enter New Grade: ");
        String newGrade = scanner.nextLine();
        controller.setStudentGrade(newGrade);
        controller.updateView();

        scanner.close();
    }
}
```

EXPLORER

J MVCPattern.java 3 ×

J MVCPattern.java > ...
50   public class MVCPattern {

PROBLEMS 28   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

Run: MVCPattern

```
PS C:\cognizant>  & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users
\sahan\AppData\Roaming\Code\User\workspaceStorage\5c120c78ee1edadaac7ff33613f965a8\redhat.java\jdt_ws\cognizant_43b6ceb\bin' 'MVCPattern'
Enter Student ID: 100
Enter Student Name: kavya
Enter Student Grade: a

----- Student Details -----
ID    : 100
Name  : kavya
Grade : a
--------------------------


Update Student Details:
Enter New Name: Shanthi
Enter New Grade: a+

----- Student Details -----
ID    : 100
Name  : Shanthi
Grade : a+
--------------------------
PS C:\cognizant>
```