**package** MNCPatternExample;

**public** **class** Student {

**private** String name;

**private** String id;

**private** String grade;

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

**this**.name = name;

**this**.id = id;

**this**.grade = grade;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getId() {

**return** id;

}

**public** String getGrade() {

**return** grade;

}

**public** **void** setGrade(String grade) {

**this**.grade = grade;

}

}

**package** MNCPatternExample;

**public** **class** StudentView {

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

System.***out***.println("Student Details:");

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

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

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

}

}

**package** MNCPatternExample;

**public** **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** String getStudentName() {

**return** model.getName();

}

**public** **void** setStudentGrade(String grade) {

model.setGrade(grade);

}

**public** String getStudentGrade() {

**return** model.getGrade();

}

**public** **void** updateView() {

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

}

}

**package** MNCPatternExample;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

Student student = **new** Student("John", "101", "A");

StudentView view = **new** StudentView();

StudentController controller = **new** StudentController(student, view);

controller.updateView();

controller.setStudentName("Alice");

controller.setStudentGrade("A+");

System.***out***.println("--- After Update ---");

controller.updateView();

}

}

