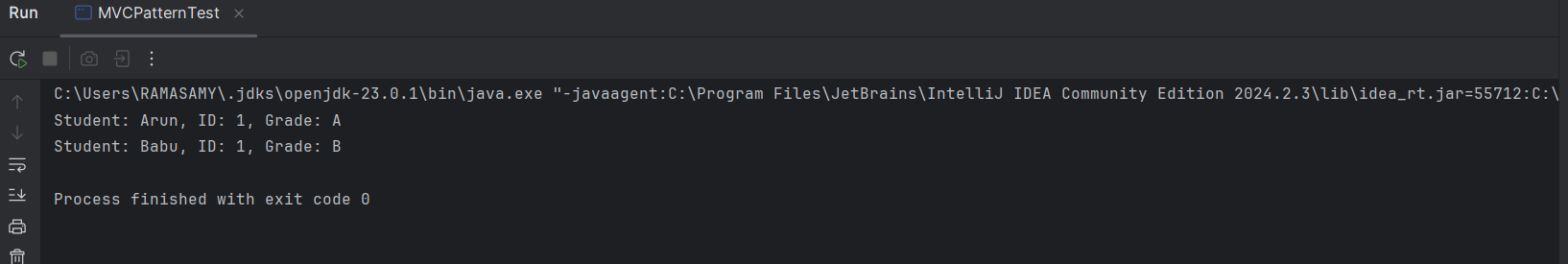
**Exercise 10: Implementing the MVC Pattern**

**CODE:**

**MVCPatternTest.java**

class Student {  
 private String name;  
 private int id;  
 private String grade;  
  
 public Student(String name, int id, String grade) {  
 this.name = name;  
 this.id = id;  
 this.grade = grade;  
 }  
  
 public String getName() { return name; }  
 public int getId() { return id; }  
 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 name, int id, String grade) {  
 System.*out*.println("Student: " + name + ", ID: " + id + ", Grade: " + grade);  
 }  
}  
  
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.getName(), model.getId(), model.getGrade());  
 }  
}  
  
class MVCPatternTest {  
 public static void main(String[] args) {  
 Student student = new Student("Alice", 1, "A");  
 StudentView view = new StudentView();  
 StudentController controller = new StudentController(student, view);  
  
 controller.updateView();  
 controller.setStudentName("Bob");  
 controller.setStudentGrade("B");  
 controller.updateView();  
 }  
}

**OUTPUT:**

****