**Exercise 10:  
Implementing the MVC Pattern**

Student.java:

**package** mvc;

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

**private** String name;

**private** String rollNo;

**public** String getName() {

**return** name;

}

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

**this**.name = name;

}

**public** String getRollNo() {

**return** rollNo;

}

**public** **void** setRollNo(String rollNo) {

**this**.rollNo = rollNo;

}

}

StudentController.java:

**package** mvc;

**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** setStudentRollNo(String rollNo)

{

model.setRollNo(rollNo);;

}

**public** String getStudentRollNo()

{

**return** model.getRollNo();

}

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

{

view.printStudentDetails(model.getName(),model.getRollNo());

}

}

StudentView.java:

**package** mvc;

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

**public** **void** printStudentDetails(String name,String rollNo)

{

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

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

System.***out***.println("Roll No: "+rollNo);

}

}

MVCTest.java:

**package** mvc;

**public** **class** MVCTest {

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

{

Student s=**new** Student();

s.setName("Geetha S A");

s.setRollNo("22cs157");

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

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

controller.updateView();

controller.setStudentName("Dhivyasree");

controller.setStudentRollNo("22cs156");

controller.updateView();

}

}

**Output:**

