



Experiment – 7 (Hard)

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Subject Name: PBLJ Subject Code: 22CSH-359

1. Aim: Develop a Java application using JDBC and MVC architecture to manage student data. The application should: Use a Student class as the model with fields like StudentID, Name, Department, and Marks. Include a database table to store student data. Allow the user to perform CRUD operations through a simple menu-driven view. Implement database operations in a separate controller class.

2. Code:



```
try {
        if (choice == 1) {
          System.out.print("Enter Student ID: ");
          int id = scanner.nextInt();
           scanner.nextLine();
           System.out.print("Enter Name: ");
           String name = scanner.nextLine();
           System.out.print("Enter Department: ");
           String dept = scanner.nextLine();
           System.out.print("Enter Marks: ");
           double marks = scanner.nextDouble();
           dao.addStudent(new Student(id, name, dept, marks));
           System.out.println("Student added successfully!");
        } else if (choice == 2) {
          s.getName()));
        } else {
          System.exit(0);
        }
      } catch (SQLException e) {
        e.printStackTrace();
    }
```





}

3. Output:

```
Enter Student ID: 101
Enter Name: John Doe
Enter Department: Computer Science
Enter Marks: 85.5
Student added successfully!
```

(Output 1)