Practical 6

```
StudentInfoServlet.java:-
package com.studentinfo;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;
import java.util.*;
public class StudentInfoServlet extends HttpServlet {
  private static final String JDBC_URL = "jdbc:mysql://localhost:3306/student_db?serverTimezone=UTC";
  private static final String JDBC_USER = "root";
  private static final String JDBC_PASSWORD = "pratik";
  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
    List<Student> students = new ArrayList<>();
    try {
      // Load the MySQL JDBC Driver (optional for modern versions)
      Class.forName("com.mysql.cj.jdbc.Driver");
      try (Connection conn = DriverManager.getConnection(JDBC_URL, JDBC_USER, JDBC_PASSWORD);
         Statement stmt = conn.createStatement();
         ResultSet rs = stmt.executeQuery("SELECT * FROM students info")) {
        while (rs.next()) {
           int studId = rs.getInt("stud_id");
           String studName = rs.getString("stud_name");
           String className = rs.getString("class");
           String division = rs.getString("division");
           String city = rs.getString("city");
           students.add(new Student(studId, studName, className, division, city));
        }
        // Set the list of students as a request attribute
        request.setAttribute("students", students);
        // Forward the request to the JSP page
        RequestDispatcher dispatcher = request.getRequestDispatcher("/students info.jsp");
        dispatcher.forward(request, response);
      }
    } catch (SQLException | ClassNotFoundException e) {
      e.printStackTrace();
      response.getWriter().println("Error: " + e.getMessage());
    }
 }
}
```

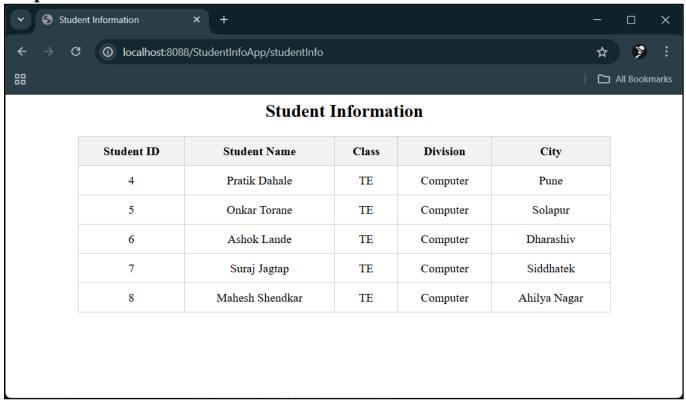
Student.java (DAO Class):-

```
package com.studentinfo;
public class Student {
  private int studId;
  private String studName;
  private String className;
  private String division;
  private String city;
  public Student(int studId, String studName, String className, String division, String city) {
    this.studId = studId;
    this.studName = studName;
    this.className = className;
    this.division = division;
    this.city = city;
  }
  public int getStudId() {
    return studId;
  }
  public String getStudName() {
    return studName;
  }
  public String getClassName() {
    return className;
  }
  public String getDivision() {
    return division;
  public String getCity() {
    return city;
  }
}
web.xml :-
<web-app xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app 4 0.xsd"
     version="4.0">
  <servlet>
    <servlet-name>StudentInfoServlet</servlet-name>
    <servlet-class>com.studentinfo.StudentInfoServlet/servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>StudentInfoServlet</servlet-name>
    <url-pattern>/studentInfo</url-pattern>
  </servlet-mapping>
</web-app>
```

```
students_info.jsp :-
<%@ page import="java.util.List" %>
<%@ page import="com.studentinfo.Student" %>
<%@ page contentType="text/html;charset=UTF-8" %>
<html>
<head>
 <title>Student Information</title>
 <style>
   table {
     width: 80%;
     margin: 20px auto;
     border-collapse: collapse;
   }
   th, td {
     padding: 10px;
     text-align: center;
     border: 1px solid #ccc;
   }
   th {
     background-color: #f2f2f2;
 </style>
</head>
<body>
 <h2 style="text-align:center;">Student Information</h2>
 Student ID
     Student Name
     Class
     Division
     City
   <%
     // Get the list of students from the request
     List<Student> students = (List<Student>) request.getAttribute("students");
     if (students != null && !students.isEmpty()) {
       // Iterate over the list and display each student's details
       for (Student student : students) {
   %>
         <%= student.getStudId() %>
           <%= student.getStudName() %>
           <%= student.getClassName() %>
           <%= student.getDivision() %>
           <%= student.getCity() %>
         <%
       }
     } else {
       out.println("No student data found.");
   %>
```

```
</body>
```

Output :-



Students_info Table in Database :-

| | stud_id | stud_name | class | division | city |
|---|---------|-----------------|-------|----------|--------------|
| • | 4 | Pratik Dahale | TE | Computer | Pune |
| | 5 | Onkar Torane | TE | Computer | Solapur |
| | 6 | Ashok Lande | TE | Computer | Dharashiv |
| | 7 | Suraj Jagtap | TE | Computer | Siddhatek |
| | 8 | Mahesh Shendkar | TE | Computer | Ahilya Nagar |