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DATE :   **SUBJECT :** FULL STACK JAVA PROGRAMING

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QUESTION :

A company wants to create a web-based Employee Management System.
The JSP page allows the HR/admin to add a new employee (name, department, salary).
The Servlet inserts this employee into the database using JDBC.
Another JSP page displays all employees stored in the database.

Project Structure

```
|    ├AddEmployeeServlet.java

├WebContent/

|  ├addEmployee.jsp

|  ├viewEmployees.jsp

|  └WEB-INF/

|    └web.xml
```

Write a code with an explanation of each step clearly.

Make directory structure as explained above.

CODE:
1)AddEmployeeServlet.java

```java
package com.company;

import java.io.IOException;
import java.sql.*;
import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;

@WebServlet("/AddEmployeeServlet")
public class AddEmployeeServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String name = request.getParameter("name");
        String dept = request.getParameter("department");
        double salary = Double.parseDouble(request.getParameter("salary"));

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                    "jdbc:mysql://localhost:3306/companyDB","root","");
            PreparedStatement ps = con.prepareStatement(
                    "INSERT INTO employees (name, department, salary) VALUES (?, ?, ?)");
            ps.setString(1, name);
            ps.setString(2, dept);
            ps.setDouble(3, salary);
            ps.executeUpdate();
            ps.close(); con.close();
            response.sendRedirect("viewEmployees.jsp");
        } catch (Exception e) {
```

```
                e.printStackTrace();
            }
        }
    }
```

OUTPUT :

Employee List

ID	Name	Department	Salary
1	Aarav Sharma	IT	50000.0
2	Priya Singh	HR	45000.0
3	Rahul Mehta	Finance	60000.0

[Add New Employee]