	Session Bean	Entity Bean
Purpose	Represent business logic	Represent data entities
State	Stateless or stateful	Stateful
Scope	Single client	Multiple clients
Persistence	Non persistent	Persistent
Activation	Activated by client request	Activated by container
Primary Key	Absent	Present
Span	Short lived	Long lived
Recovery	Not recoverable	Recoverable

Write a HTML based Program to accept the values for userID and password. Apply appropriate JavaScript validations

```html
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Login Form</title>
</head>
<body>

<div>
    <h2>Login Form</h2>
    <form id="loginForm" onsubmit="return validateForm()">
        <label for="userID">User ID:</label>
        <input type="text" id="userID" name="userID" required>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>

        <div id="error-message"></div>

        <button type="submit">Login</button>
    </form>
</div>

<script>
    function validateForm() {
        // Get values from form
        var userID = document.getElementById('userID').value;
        var password = document.getElementById('password').value;

        // Reset error message
        document.getElementById('error-message').innerHTML = '';


        if (userID.trim() === '' || password.trim() === '') {
            document.getElementById('error-message').innerHTML = 'User ID and
Password are required';
```

```
            return false;
        }

        return true;
    }
</script>

</body>
</html>
```

index.html

```html
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>University Homepage</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>

<header>
    <h1>University Name</h1>
</header>

<nav>
    <a href="index.html">Home</a>
    <a href="courses.html">Courses</a>
    <a href="admissions.html">Admissions</a>
</nav>

<section>
    <h2>Welcome to Our University!</h2>
    <p>Join us as soon as possible</p>
</section>

<footer>
    &copy; 2023 All rights reserved.
</footer>

</body>
</html>
```

style.css

```css
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f4;
}

header {
    background-color: #333;
    color: white;
    padding: 10px;
    text-align: center;
}

nav {
    background-color: #444;
    padding: 10px;
}

nav a {
    color: white;
    text-decoration: none;
    padding: 10px;
    margin: 0 10px;
}

section {
    padding: 20px;
}

footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 10px;
    position: fixed;
    width: 100%;
}
```

Write a JDBC based Program to dynamically update the salary of employee from 10.000 to Rs 33,000 and his address from NOIDA to DELHI in the employee table of the database. Assume appropriate fields of the employee table.

```java
import java.sql.*;
public class UpdateEmployee {

    public static void main(String[] args) throws Exception {
        // Database connection details
        String url = "jdbc:mysql://localhost:3306/your_database_name";
        String username = "your_username";
```

```java
        String password = "your_password";

        // Employee ID and updated information
        int employeeId = 1; // Replace with actual employee ID
        double newSalary = 33000.00;
        String newAddress = "DELHI";

        // Connect to the database
        Connection conn = DriverManager.getConnection(url, username, password);

        // Prepare SQL statement
        String sql = "UPDATE employee SET salary = ?, address = ? WHERE id = ?";

        // Create a PreparedStatement object
        PreparedStatement statement = conn.prepareStatement(sql);

        // Set statement parameters
        statement.setDouble(1, newSalary);
        statement.setString(2, newAddress);
        statement.setInt(3, employeeId);

        // Execute the update statement
        statement.executeUpdate();

        // Close connection and statement
        statement.close();
        conn.close();
    }
}
```

Write a Servlet based program to display all the values of HTTP Request header packet

```java
import java.io.*;
import javax.servlet.*;
public class HeaderServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        response.setContentType("text/plain");

        // Get all header names
        Enumeration<String> headerNames = request.getHeaderNames();

        // Iterate through each header name and print its value
        while (headerNames.hasMoreElements()) {
            String headerName = headerNames.nextElement();
            String headerValue = request.getHeader(headerName);
            response.getWriter().println(String.format("%s: %s", headerName,
headerValue));
        }
    }
}
```