Artificial Intelligence &Data Science and Artificial Intelligence Machine Learning

LAB EXPERIMENT : 04

04 Create a web form that accepts a user's name and age. Write a Servlet to process the form data and display it back on the browser.

AIM : To Create a web form that accepts a user's name and age. Write a Servlet to process the form data and display it back on the browser.

SOURCE CODE :

Create the HTML Form :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Form</title>
</head>
<body>
  <h2>User Information Form</h2>
```

```html
<form action="processForm" method="POST">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>

    <label for="age">Age:</label>
    <input type="number" id="age" name="age" required><br><br>

    <input type="submit" value="Submit">
</form>
</body>
</html>
```

Create the Servlet to Process the Form Data

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;


public class ProcessFormServlet extends HttpServlet {


  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
      // Get the name and age from the form data
      String name = request.getParameter("name");
      String age = request.getParameter("age");


      // Set the response content type
      response.setContentType("text/html");
```

```java
        // Get the output stream to send the response
        PrintWriter out = response.getWriter();


        // Generate HTML content to display back the user's data
        out.println("<html><body>");
        out.println("<h2>User Information</h2>");
        out.println("<p>Name: " + name + "</p>");
        out.println("<p>Age: " + age + "</p>");
        out.println("</body></html>");
    }
}
```

Configure the Servlet in web.xml :

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
        http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
     version="3.0">

  <!-- Servlet Declaration -->
  <servlet>
    <servlet-name>ProcessFormServlet</servlet-name>
    <servlet-class>ProcessFormServlet</servlet-class>
  </servlet>


  <!-- Servlet Mapping -->
```

```xml
  <servlet-mapping>
    <servlet-name>ProcessFormServlet</servlet-name>
    <url-pattern>/processForm</url-pattern>
  </servlet-mapping>


</web-app>
```