WEB TECHNOLOGY AND MOBILE APPLICATION

REGISTRATION NUMBER: 231501102

DEPT AND SECTION: AIML- "FA"

SUBJECT CODE : AI234231

4) 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, and to develop a Servlet that processes the form data and displays it back on the browser, demonstrating basic form handling and servlet functionality in a Java web application.

SOURCE CODE:

1. Create the HTML form (index.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```html
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Form</title>
</head>
<body>
  <h2>Enter Your Information</h2>
  <form action="ProcessServlet" 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>
```

2. Create the Servlet (ProcessServlet.java)

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


public class ProcessServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    // Get the form data
```

```java
        String name = request.getParameter("name");
        String age = request.getParameter("age");

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

        // Get the output stream to write the response
        PrintWriter out = response.getWriter();

        // Display the submitted data
        out.println("<html><body>");
        out.println("<h2>Form Submitted Successfully!</h2>");
        out.println("<p>Name: " + name + "</p>");
        out.println("<p>Age: " + age + "</p>");
        out.println("</body></html>");
    }
}
```

3. Configure the Servlet in web.xml

```xml
<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>
    <servlet-name>ProcessServlet</servlet-name>
    <servlet-class>ProcessServlet</servlet-class>
  </servlet>
```

```
<servlet-mapping>
    <servlet-name>ProcessServlet</servlet-name>
    <url-pattern>/ProcessServlet</url-pattern>
</servlet-mapping>


</web-app>
```

RESULT:

To clarify the expected result for the code you've written (the HTML form and the servlet), let's assume you are submitting the following data in the HTML form