EX NO 4 : Create a web form that accepts a users name and age. Write a Servlet to process the form data and display it back on the browser.

AIM:

To create a web-based Java Servlet application that accepts a user's name and age through an HTML form and displays the submitted data back on the browser using Java Servlet technology.

Algorithm:

1. **Start**:
   - The user accesses the web page containing the HTML form.
2. **Display Form**:
   - The form includes two fields: one for the user's name (`username`) and another for the user's age (`age`).
   - The form submits data to the servlet via POST request.
3. **Servlet Processing**:
   - The server receives the data submitted by the form.
   - The servlet processes the form data, retrieves the values of the `username` and `age` from the request.
4. **Display Data**:
   - The servlet generates an HTML response containing the data (name and age) and sends it back to the user's browser.
5. **End**.

CODE:

```html
<!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>
  <style>
    /* Full-page styling */
    body {
      font-family: 'Arial', sans-serif;
      background: linear-gradient(135deg, #1e3c72, #2a5298);
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
      color: white;
    }

    /* Stylish container */
    .container {
      background: rgba(255, 255, 255, 0.15);
```

```css
      backdrop-filter: blur(10px);
      padding: 25px;
      border-radius: 15px;
      box-shadow: 0px 4px 15px rgba(0, 0, 0, 0.3);
      text-align: center;
      width: 320px;
      border: 2px solid rgba(255, 255, 255, 0.3);
    }

    h2 {
      color: #ffcc00;
      font-size: 22px;
    }

    input[type="text"], input[type="number"] {
      width: 90%;
      padding: 10px;
      margin: 10px 0;
      border: none;
      border-radius: 5px;
      background: rgba(255, 255, 255, 0.3);
      color: white;
      font-size: 16px;
    }

    input[type="text"]::placeholder,
    input[type="number"]::placeholder {
      color: #ddd;
    }

    input[type="submit"] {
      background: #ffcc00;
      color: #333;
      padding: 10px 15px;
      border: none;
      border-radius: 5px;
      cursor: pointer;
      font-size: 16px;
      width: 100%;
      font-weight: bold;
    }

    input[type="submit"]:hover {
      background: #ffaa00;
    }
  </style>
</head>
<body>
  <div class="container">
    <h2>Enter Your Details</h2>
    <form action="UserServlet" method="post">
      <input type="text" name="username" placeholder="Enter your name" required><br>
```

```html
        <input type="number" name="age" placeholder="Enter your age" required><br>
        <input type="submit" value="Submit">
      </form>
    </div>
</body>

</html>
```

Java Servlet:

```java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/UserServlet") // Matches the form action URL
public class UserServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Retrieving form data
        String name = request.getParameter("username");
        String age = request.getParameter("age");

        // Output HTML response
        out.println("<html><head><title>Welcome</title>");
        out.println("<style>");
        out.println("body { font-family: Arial, sans-serif; text-align: center; background: linear-
gradient(135deg, #0f2027, #203a43, #2c5364); color: white; padding: 50px; }");
        out.println(".box { background: rgba(255, 255, 255, 0.1); padding: 20px; border-radius:
10px; box-shadow: 0px 0px 15px rgba(255, 255, 255, 0.3); display: inline-block; }");
        out.println("h2 { color: #ffcc00; }");
        out.println("</style></head><body>");
        out.println("<div class='box'><h2>Welcome, " + name + "!</h2>");
        out.println("<p>Your age is: <b>" + age + "</b></p></div>");
        out.println("</body></html>");
    }
}
```

Web.xml :

```xml
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
   <servlet>
      <servlet-name>UserServlet</servlet-name>
      <servlet-class>UserServlet</servlet-class>
   </servlet>

   <servlet-mapping>
```
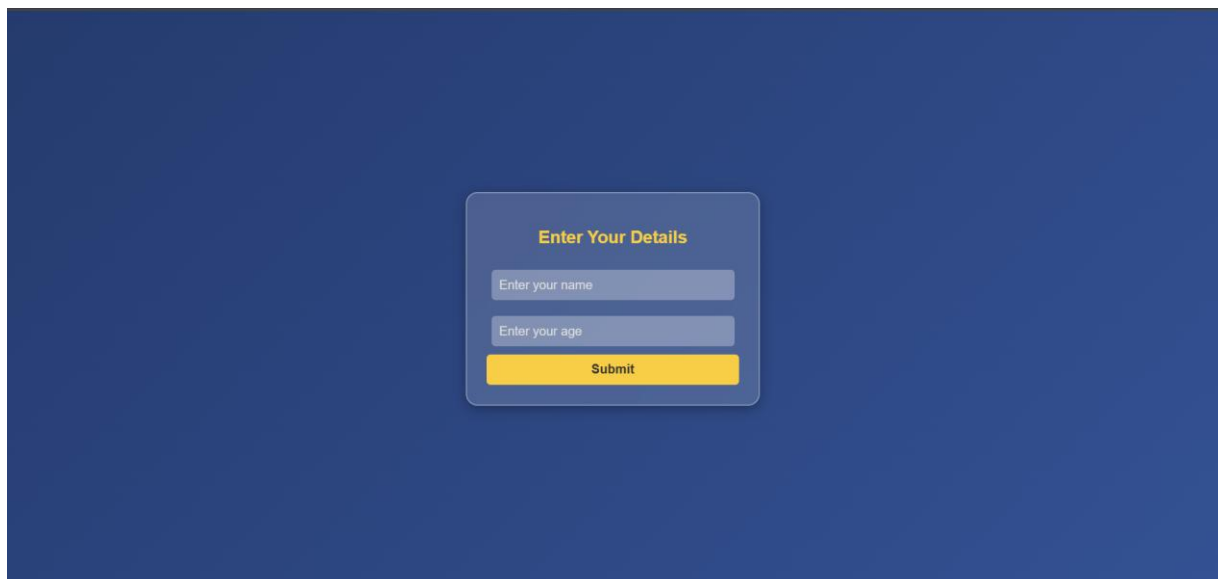
```
    <servlet-name>UserServlet</servlet-name>
    <url-pattern>/UserServlet</url-pattern>
  </servlet-mapping>
</web-app>
```

OUTPUT:

RESULT :

Thus the give program is executed successful.