EXP: 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 gathers a user's name and age via an HTML form and displays the submitted information on the browser using Java Servlet technology.

Algorithm:

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

CODE:

```
<!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>
body {
      font-family: 'Poppins', sans-serif;
      background: linear-gradient(135deg, #74ebd5,
#acb6e5);       display: flex;       justify-content: center;
align-items: center;       height: 100vh;       margin: 0;
    }
    .container {
background: white;
padding: 25px;
border-radius: 10px;
      box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.2);

      width: 350px;
text-align: center;
```

```css
        }        h2 {
color: #333;        margin-
bottom: 20px;
        }        label  {
font-weight:        600;
display:        block;
margin-top:        10px;
color: #555;
        }      input {        width:
100%;        padding: 10px;
margin-top: 5px;        border:
2px solid #ccc;        border-
radius: 5px;        outline:
none;        transition: 0.3s;
        }        input:focus  {
border-color: #74ebd5;
        box-shadow: 0px 0px 5px rgba(116, 235, 213, 0.5);
        }
        input[type="submit"] {
background: #007bff;
color: white;        border:
none;        padding: 12px;
font-size: 16px;        font-
weight: bold;        cursor:
pointer;        margin-top:
20px;        border-radius:
5px;        transition: 0.3s;
        }
        input[type="submit"]:hover {
background: #0056b3;
        }
    </style>
</head>
<body>
    <div class="container">
        <h2>Enter Your Details</h2>
        <form action="UserServlet" method="post">
            <label for="username">Name:</label>
            <input type="text" id="username" name="username" required>

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

         <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
```

```java
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;

@WebServlet("/UserServlet")
public class UserServlet extends HttpServlet {
private static final long serialVersionUID = 1L;

   protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

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

     // Set response content type
response.setContentType("text/html");
PrintWriter out = response.getWriter();

     // Display the submitted data
     out.println("<html><head><title>User Details</title></head><body>");
out.println("<h2>Submitted User Details</h2>");
out.println("<p><strong>Name:</strong> " + username + "</p>");
out.println("<p><strong>Age:</strong> " + age + "</p>");
out.println("</body></html>");
   }
}
```

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>
    <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>

  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
  </welcome-file-list>

</web-app>
```
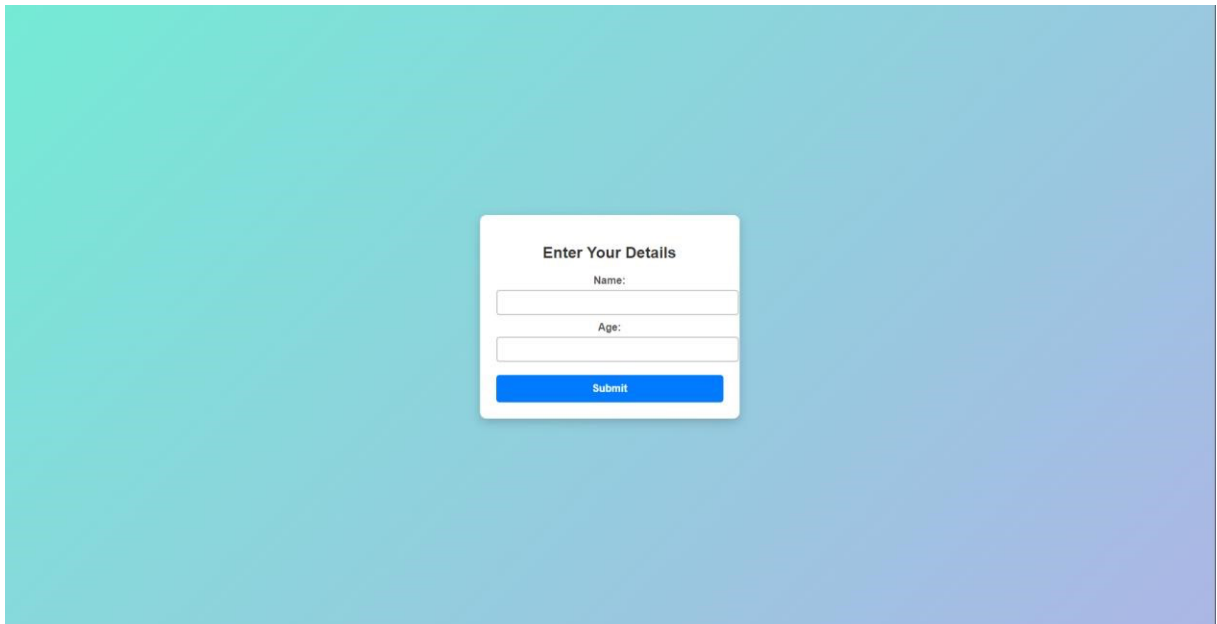
OUTPUT:

RESULT :

Thus the give program is executed successful.