EXP 4: WEB FORM DEVELOPED USING SERVLET PROGRAM

AIM:

To create a web form that accepts a user's name and age, processes the data using JavaScript, and displays the submitted details with a stylish UI and animations.

ALGORITHM:

Step 1: Start

Step 2: Design the Web Form

- Create an HTML form with two input fields:
    - `Name` (Text Input) ○

`Age` (Number Input) □   Add a submit button.

Step 3: Apply CSS Styles

- Use **gradient background, smooth input effects, button hover effects, and animations**.
- Style the form, inputs, button, and result display area.

Step 4: Write JavaScript for Form Handling

- Attach an **event listener** to the form submit event.
- Get user input values (`name` and `age`).
- Validate input fields (ensure **name is not empty** and **age is valid**).
- If validation fails, **show an alert**.
- If valid, display the submitted details dynamically.

Step 5: Show Output Dynamically

- Use JavaScript to update the UI and **display the submitted data in a formatted box**.
    - □   Use **smooth animations** for better user experience.

Step 6: End

PROGRAM:

```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>
        /* Import Google Font */
        @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap');


        /* Page Styling */
body {
        font-family: 'Poppins', sans-serif;
        background: linear-gradient(135deg, #ff9a9e, #fad0c4);
display: flex;          justify-content: center;          align-
items: center;          height: 100vh;          margin: 0;
        animation: fadeIn 1s ease-in-out;
    }


    /* Form Container */
    .container {
background: white;
padding: 25px;
border-radius: 12px;
        box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.2);
width: 350px;

        text-align: center;          transition:
transform 0.3s ease-in-out;
```
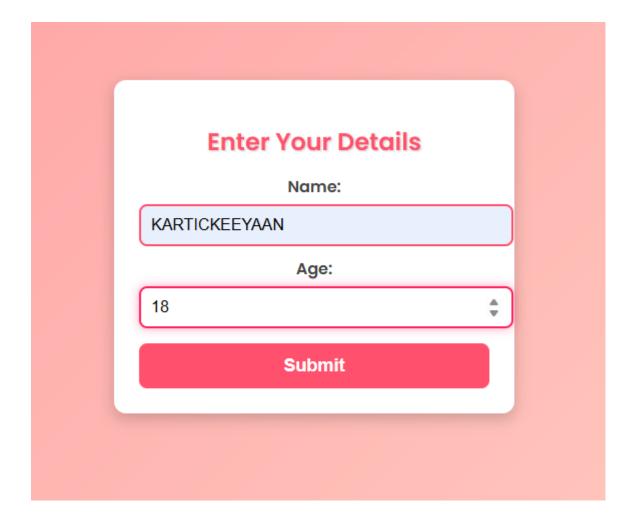
```css
    }

    .container:hover {
transform: scale(1.05);
    }
    h2 {         color: #ff4d6d;        font-
weight: 600;        margin-bottom: 15px;
text-shadow: 1px 1px 2px rgba(0, 0, 0, 0.2);
    }


    /* Input Fields */
label {        font-weight:
600;        color: #444;
display: block;
margin: 10px 0 5px;
    }
    input {        width:
100%;        padding: 10px;
border: 2px solid #ff4d6d;
border-radius: 8px;        font-
size: 16px;        outline: none;

      transition: all 0.3s ease-in-out;
    }

    input:focus {
border-color: #ff165d;
      box-shadow: 0px 0px 10px rgba(255, 22, 93, 0.4);
    }
```

```css
    /* Submit Button */
button {          background:
#ff4d6d;          color:
white;          border: none;
padding: 12px;
cursor: pointer;
width: 100%;          font-
size: 18px;          font-
weight: 600;          border-
radius: 8px;          margin-
top: 15px;
        transition: background 0.3s ease-in-out, transform 0.2s;
    }

    button:hover {
background: #ff165d;
transform: scale(1.05);
    }

    button:active {
transform: scale(0.95);          }

    /* Output Box */
.output {          display:
none;          margin-top:
20px;          padding: 15px;
border-radius: 8px;
background: #e0f7fa;
color: #00796b;          font-
```

```css
      size: 16px;          text-
align: left;
          box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);
animation: slideIn 0.5s ease-in-out;
      }


      /* Animations */
@keyframes fadeIn {
          from { opacity: 0; transform: translateY(-10px); }
to { opacity: 1; transform: translateY(0); }
      }


      @keyframes slideIn {
          from { opacity: 0; transform: translateY(20px); }
to { opacity: 1; transform: translateY(0); }
      }
    </style>
</head>
<body>
    <div class="container">
      <h2>Enter Your Details</h2>
      <form id="userForm">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required placeholder="Enter your
name...">


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


        <button type="submit">Submit</button>
```

```html
        </form>

        <div class="output" id="output"></div>
    </div>

    <script>
        document.getElementById("userForm").addEventListener("submit", function(event) {
event.preventDefault(); // Prevent form submission

            let name = document.getElementById("name").value.trim();
let age = document.getElementById("age").value.trim();

            if (name === "" || age === "" || age <= 0) {
alert("⚠ Please enter a valid name and age.");
return;
            }

            // Display the submitted data with an animation
let outputBox = document.getElementById("output");
outputBox.innerHTML =
            `<h3>✅ Submitted Details</h3>
            <p><b>Name:</b> ${name}</p>
<p><b>Age:</b> ${age}</p>`;
outputBox.style.display = "block";
        });
    </script>
</body>
</html>
```

OUTPUT:

RESULT: The creation of web form using servlet program was executed successfully.