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:
    - o `Name` (Text Input)
    - o `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;
```

```css
    text-align: center;

    transition: transform 0.3s ease-in-out;

}


.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;
```

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


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


/* 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);
```

```css
      }


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

```html
<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>
</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 =
```
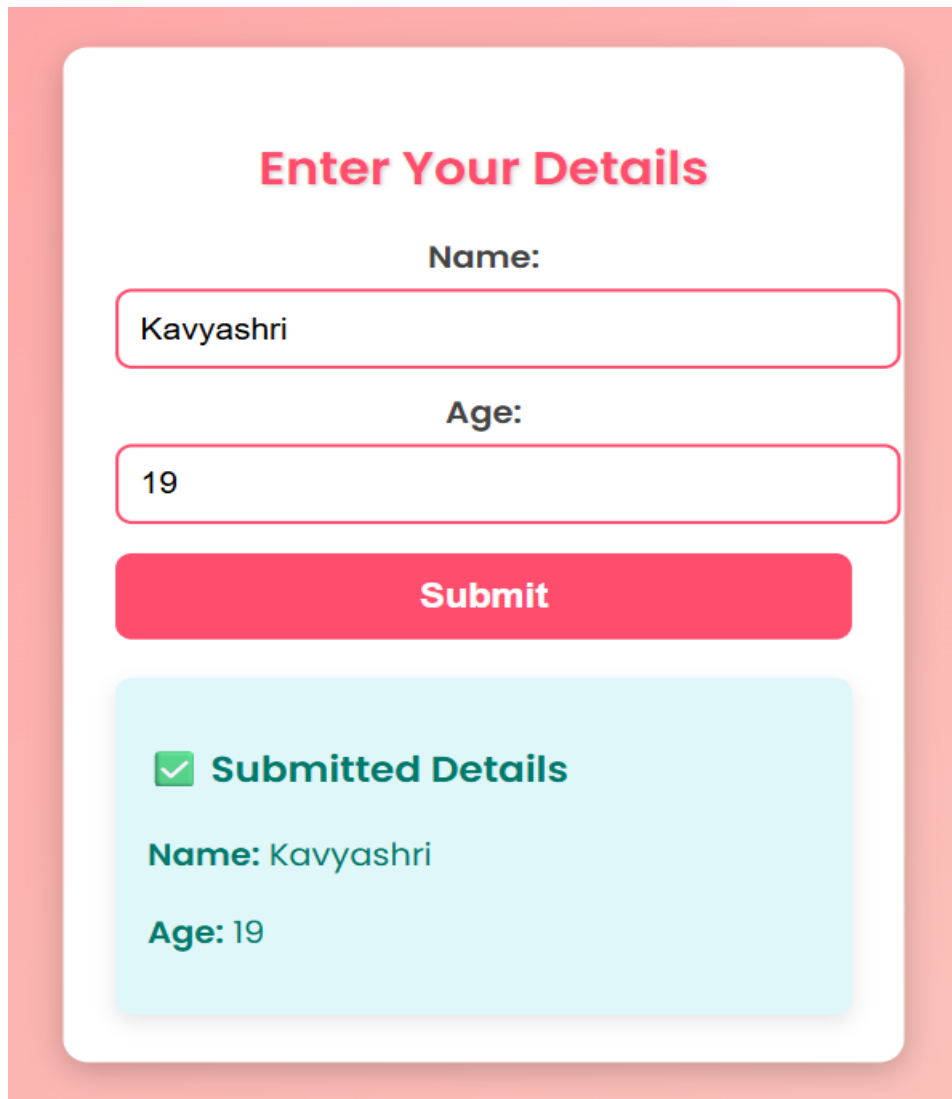
```
        `<h3>✅ Submitted Details</h3>

        <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.