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

- o Create an HTML form with two input fields:

    - • `Name` (Text Input)

    - • `Age` (Number Input)

- o Add a submit button.

Step 3: Apply CSS Styles

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

Step 4: Write JavaScript for Form Handling

- o Attach an **event listener** to the form submit event.
- o Get user input values (`name` and `age`). o
    Validate input fields (ensure **name is not empty**
  and **age is valid**).

- o If validation fails, **show an alert**. o If valid,
  display the submitted details dynamically.

Step 5: Show Output Dynamically o Use JavaScript to update the UI and **display the submitted data in a formatted box**.

o Use **smooth animations** for better user experience.

Step 6: End

PROGRAM:

```
<!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 */

  @importurl('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, #ff7f50, #ffcc80); /* Orange gradient */

       display: flex;        justify-

content: center;        align-items:

center;        height: 100vh;
```

```css
    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;

    }
    .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);

    }
```

```css
/* 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);
}


/* 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;
}
```

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

    }
```

```css
    /* 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>
    </form>
```

```html
    <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>
```
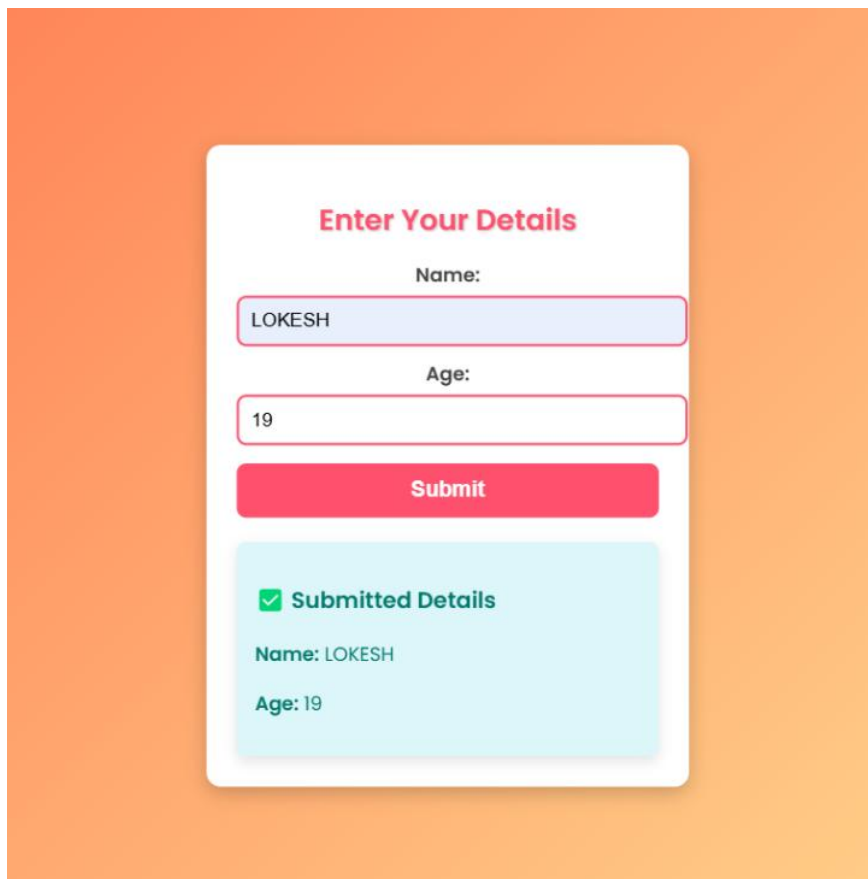
```
        <p><b>Age:</b> ${age}</p>

      `;

      outputBox.style.display = "block";

    });

  </script>
</body>

</html>
```

OUTPUT:

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