Darshan UNIVERSITY
योग: कर्मसु कौशलम्

DICA|BCA/BSCIT

Academic Year 2025-26 | Semester-4

Practical Solution

Subject: **2304CS431 – CSJS**

Faculty: Prof. Chirag K. Sakhrani

Practical – 13: Implementing validation in forms and pages	
36	36. WAP to prepare employee form to valuate it using JavaScript (Email, contact, gender, city, usernmae, pwd, confirm password. (A)

```html
<!DOCTYPE html>
<html>
<head>
  <title>Employee Registration Form</title>

  <style>
    body {
      font-family: Arial, sans-serif;
      background: #f2f2f2;
      margin: 0;
      padding: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }

    .container {
      background: white;
      border: 1px solid #ccc;
      padding: 20px;
      width: 330px;
      border-radius: 5px;
    }

    h2 {
      text-align: center;
      margin-bottom: 15px;
    }

    label {
      display: block;
      margin-top: 10px;
    }

    input, select {
      width: 100%;
      padding: 7px;
      margin-top: 5px;
      border: 1px solid #aaa;
      border-radius: 4px;
    }

    input[type="submit"] {
      margin-top: 15px;
      background: #ddd;
      cursor: pointer;
```

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Subject: 2304CS431 – CSJS   Faculty: Prof. Chirag K. Sakhrani

```html
      border: 1px solid #999;
    }
  </style>
</head>

<body>
  <div class="container">
    <h2>Employee Registration</h2>

    <form onsubmit="return validateForm()">
      <label>Email:</label>
      <input type="text" id="email">

      <label>Contact:</label>
      <input type="text" id="contact">

      <label>Gender:</label>
      <select id="gender">
        <option value="">Select Gender</option>
        <option>Male</option>
        <option>Female</option>
        <option>Other</option>
      </select>

      <label>City:</label>
      <input type="text" id="city">

      <label>Username:</label>
      <input type="text" id="username">

      <label>Password:</label>
      <input type="password" id="pwd">

      <label>Confirm Password:</label>
      <input type="password" id="cpwd">

      <input type="submit" value="Register">
    </form>
  </div>

  <script>
    function validateForm() {
      let email = document.getElementById("email").value.trim();
      let contact = document.getElementById("contact").value.trim();
      let gender = document.getElementById("gender").value;
      let city = document.getElementById("city").value.trim();
      let username = document.getElementById("username").value.trim();
      let pwd = document.getElementById("pwd").value;
      let cpwd = document.getElementById("cpwd").value;

      let emailPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;
```

```javascript
      if (!email.match(emailPattern)) {
        alert("Invalid Email!");
        return false;
      }

      if (!/^[0-9]{10}$/.test(contact)) {
        alert("Contact must be 10 digits!");
        return false;
      }

      if (gender === "") {
        alert("Please select gender!");
        return false;
      }

      if (city === "" || username === "") {
        alert("City and Username are required!");
        return false;
      }

      if (pwd.length < 6) {
        alert("Password must be at least 6 characters!");
        return false;
      }

      if (pwd !== cpwd) {
        alert("Passwords do not match!");
        return false;
      }

      alert("Employee Registered Successfully!");
      return true;
    }
  </script>
</body>
</html>
```

37	37. WAP using HTML, CSS, JavaScript to design advance calculator with GUI. (B)

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Calculator</title>

  <style>
    body {
      font-family: Arial, sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
```

```css
      height: 100vh;
      margin: 0;
      background: #f2f2f2;
    }

    .calculator {
      background: white;
      border: 1px solid #ccc;
      padding: 20px;
      border-radius: 10px;
      width: 260px;
      text-align: center;
    }

    #display {
      width: 235px;
      height: 45px;
      margin-bottom: 10px;
      font-size: 20px;
      text-align: right;
      padding-right: 10px;
      border: 1px solid #888;
      border-radius: 5px;
    }

    input[type="button"] {
      width: 55px;
      height: 50px;
      margin: 3px;
      border: 1px solid #999;
      border-radius: 5px;
      background: #e6e6e6;
      font-size: 18px;
      cursor: pointer;
    }

    .equal {
      width: 235px;
    }
  </style>
</head>

<body>
  <div class="calculator">
    <input type="text" id="display" readonly><br>

    <input type="button" value="C" onclick="clearDisplay()">
    <input type="button" value="(" onclick="append('(')">
    <input type="button" value=")" onclick="append(')')">
    <input type="button" value="/" onclick="append('/')"><br>

    <input type="button" value="7" onclick="append('7')">
```

```html
      <input type="button" value="8" onclick="append('8')">
      <input type="button" value="9" onclick="append('9')">
      <input type="button" value="*" onclick="append('*')"><br>

      <input type="button" value="4" onclick="append('4')">
      <input type="button" value="5" onclick="append('5')">
      <input type="button" value="6" onclick="append('6')">
      <input type="button" value="-" onclick="append('-')"><br>

      <input type="button" value="1" onclick="append('1')">
      <input type="button" value="2" onclick="append('2')">
      <input type="button" value="3" onclick="append('3')">
      <input type="button" value="+" onclick="append('+')"><br>

      <input type="button" value="0" onclick="append('0')">
      <input type="button" value="." onclick="append('.')">
      <input type="button" value="%" onclick="append('%')"><br>

      <input type="button" value="=" class="equal" onclick="calculate()">
    </div>

    <script>
      function append(value) {
        document.getElementById("display").value += value;
      }

      function clearDisplay() {
        document.getElementById("display").value = "";
      }

      function calculate() {
        let expression = document.getElementById("display").value;
        if (expression.trim() === "") return;
        let result = eval(expression);
        document.getElementById("display").value = result;
      }
    </script>
  </body>
</html>
```