Name: Mukund Kuthe

3rd Year Section B (B1)

Practical 8 (JavaScript)

```html
<> practical8.html > ...
1    <html>
2    <head>
3      <title>Form Validation Demo</title>
4    </head>
5    <body>
6      <h1>Form Validation (15 Techniques)</h1>
7
8    <form name="myForm" onsubmit="return validateForm()">
9
10     Username: <input type="text" name="username" required>
11
12     Age: <input type="text" name="age">
13
14     Email: <input type="text" name="email" required
15       oninvalid="this.setCustomValidity('Enter a valid email!')"
16       oninput="this.setCustomValidity('')">
17
18     Password: <input type="password" name="password">
19     Confirm Password: <input type="password" name="confirmPassword">
20
21     Phone: <input type="text" name="phone">
22
23     Gender:
24     <input type="radio" name="gender" value="Male"> Male
25     <input type="radio" name="gender" value="Female"> Female
26
27     City:
28     <select name="city">
29       <option value="">--Select City--</option>
30       <option value="Delhi">Delhi</option>
31       <option value="Mumbai">Mumbai</option>
32       <option value="Chennai">Chennai</option>
33     </select>
34
35     Date of Birth: <input type="date" name="dob">
36
37     <input type="submit" value="Submit">
```

```html
</form>

<script>
  function validateForm() {
    let form = document.forms["myForm"];

    let username = form["username"].value;
    let age = form["age"].value;
    let email = form["email"].value;
    let password = form["password"].value;
    let confirmPassword = form["confirmPassword"].value;
    let phone = form["phone"].value;
    let gender = form["gender"].value;
    let city = form["city"].value;
    let dob = new Date(form["dob"].value);
    let today = new Date();

    if (username === "") {
      alert("Username is required");
      return false;
    }

    if (isNaN(age)) {
      alert("Age must be a number");
      return false;
    }

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

    if (age < 18 || age > 60) {
      alert("Age must be between 18 and 60");
```

```
            return false;
        }

        let pattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;
        if (!email.match(pattern)) {
          alert("Invalid email format");
          return false;
        }

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

        if (!/^[0-9]+$/.test(phone)) {
          alert("Phone must contain only digits");
          return false;
        }

        if (!email.match(pattern)) {
          alert("Invalid email address");
          return false;
        }

        let passPattern = /^(?=.*[A-Z])(?=.*[a-z])(?=.*[0-9])(?=.*[@#$%^&+=]).{8,}$/;
        if (!password.match(passPattern)) {
          alert("Weak password. Use uppercase, lowercase, number & special char.");
          return false;
        }

        if (!form["gender"].value) {
          alert("Please select your gender");
          return false;
```

```
105        }
106
107      if (city === "") {
108        alert("Please select a city");
109        return false;
110      }
111
112      if (dob > today) {
113        alert("Date of Birth cannot be in the future");
114        return false;
115      }
116
117      return true;
118    }
119
120    document.forms["myForm"]["username"].oninput = function() {
121      if (this.value.length < 3) {
122        alert("Must be at least 3 characters");
123      }
124    }
125  </script>
126 </body>
127 </html>
128
```

Output:

Form Validation (15 Techniques)

Username: mukund kuthe   Age: 20   Email: mukundk0204@gmail.com Password: ·········   Confirm Password: ·········   Phone: 7741963853   Gender: ◉
Male ○ Female City: Delhi   ▾ Date of Birth: 02-10-2025 ▢ Submit

15 Techniques)

Age: hi Email: muku

Date of Birth: 02-10-2025 Submit

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muku

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assword:

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muku

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assword: ••••••

127.0.0.1:5500 says

Phone must contain only digits

OK