Session	2024-25 (ODD)	Course Name	Web Technology Lab
Semester	3	Course Code	23CT1301
Roll No	56	Name of Student	Mangesh Gavhane

Practical Number	9
Aim	Write JavaScript to validate the following fields of the Admission Registration page. **1. Student Name** (Name should contains alphabets and the length should not be less than 6 characters). **2. Date of Birth** (Should be a valid date and age > 17) 3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com) **4. Mobile Numbe**r (Phone number should contain 10 digits only). **5. Course Selection** (At least one course must be selected)

Theory	Form validation is a process of verifying that the data entered by the user is accurate, complete, and meets the required format before it is sent to the server. JavaScript provides client-side validation, meaning the form data is checked directly in the browser, improving user experience and reducing server load. Form validation ensures that: ● Incorrect or incomplete data is not submitted. ● Users are prompted to correct mistakes immediately. ● The application becomes more reliable and secure. There are two types of form validation: 1. Client-side validation: Performed using JavaScript before sending data to the server. 2. Server-side validation: Performed after the form data is submitted to the server. In this practical, client-side validation is implemented using JavaScript functions and Regular Expressions (RegEx) to check the following fields: 1. Student Name: Must contain only alphabets and have a minimum length of 6 characters. 2. Date of Birth: Must represent a valid date, and the student's age should be greater than 17. 3. E-mail ID: Must follow the standard format name@domain.com. 4. Mobile Number: Must be exactly 10 digits. 5. Course Selection: At least one course must be selected. JavaScript functions like document.getElementById() are used to access form elements, and conditional statements (if, else) are applied to validate the data. If any field is invalid, a suitable error message is displayed, preventing the form submission. This ensures that only properly formatted and meaningful data is accepted by the form.

Procedure and Execution	**Code:**
	
	HTML FILE
	
	`<!DOCTYPE html>`
	`<html lang="en">`
	`<head>`
	`<meta charset="UTF-8">`
	`<meta name="viewport" content="width=device-width,`
	`initial-scale=1.0">`

```
<title>Admission Registration Form</title>
<link rel="stylesheet" href="Practical9.css">
<script src="Practical9.js" defer></script>
</head>
<body>

<div class="container">
    <h2>🎓 Admission Registration Form</h2>
    <form id="regForm" onsubmit="return validateForm()">

        <label>Student Name:</label>
        <input type="text" id="name" placeholder="Enter your
full name">

        <label>Date of Birth:</label>
        <input type="date" id="dob">

        <label>Email ID:</label>
        <input type="email" id="email"
placeholder="name@example.com">

        <label>Mobile Number:</label>
        <input type="text" id="mobile" placeholder="Enter
10-digit mobile no.">

        <label>Select Course:</label>
        <div class="courses">
            <input type="checkbox" id="course1" value="BCA">
BCA
            <input type="checkbox" id="course2" value="BBA">
BBA
            <input type="checkbox" id="course3" value="BSc">
BSc
        </div>

        <button type="submit">Submit</button>
        <p id="error" class="error"></p>
    </form>
```

```
</div>

</body>
</html>
```

CSS FILE

```
body {
    font-family: Arial, sans-serif;
    background: linear-gradient(to right, #a8edea, #fed6e3);
    display: flex;
    justify-content: center;     align-
items: center;
    height: 100vh;
}

.container {
    background: white;
    padding: 25px;     border-
radius: 10px;
    width: 350px;
    box-shadow: 0 0 10px rgba(0,0,0,0.2);
}

h2 {
    text-align: center;
color: #333;
}

form {
    display: flex;
    flex-direction: column;
}

label {
```

```
    margin-top: 10px;
    font-weight: bold;
}
```

```
input[type="text"], input[type="email"], input[type="date"] {
    padding: 8px;
margin-top: 5px;
    border: 1px solid #ccc;
    border-radius: 5px;
}

button {
    margin-top: 15px;     background-
color: #007bff;
    color: white;
    padding: 10px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

button:hover {
    background-color: #0056b3;
}

.error {
    color: red;
margin-top: 10px;
    text-align: center;
    font-size: 14px;
}
```

JS FILE

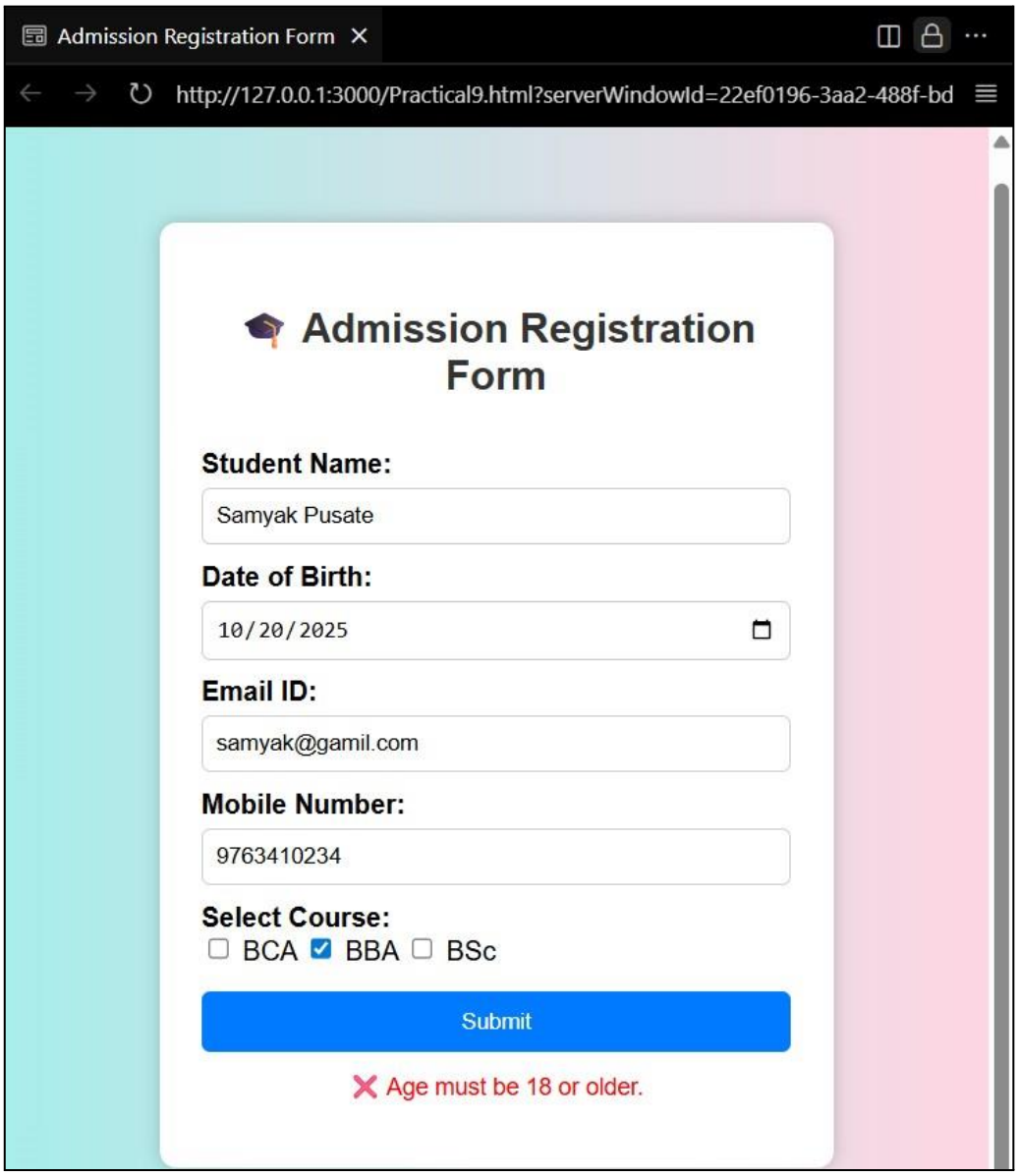
```
function validateForm() {
    let name = document.getElementById("name").value.trim();
    let dob = document.getElementById("dob").value;
    let email = document.getElementById("email").value.trim();
    let mobile =
document.getElementById("mobile").value.trim();
```

```
    let error = document.getElementById("error");
```

```
    error.innerHTML = "";

    let nameRegex = /^[A-Za-z ]+$/;
    if (!nameRegex.test(name) || name.length < 6) {
        error.innerHTML = "⚠ Name must be at least 6 letters and contain alphabets only.";
        return false;
    }

    let dobDate = new Date(dob);
    let today = new Date();
     let age = today.getFullYear() - dobDate.getFullYear();
   let monthDiff = today.getMonth() - dobDate.getMonth();
    if (monthDiff < 0 || (monthDiff === 0 && today.getDate() < dobDate.getDate())) {
        age--;
    }
    if (isNaN(dobDate) || age < 18) {
        error.innerHTML = "⚠ Age must be 18 or older.";
return false;
    }

    let emailRegex = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-z]{2,}$/;
    if (!emailRegex.test(email)) {
        error.innerHTML = "⚠ Please enter a valid email address.";
        return false;
    }


    let mobileRegex = /^[0-9]{10}$/;
    if (!mobileRegex.test(mobile)) {
        error.innerHTML = "⚠ Mobile number must contain exactly 10 digits.";
        return false;
    }
```

```
  let course1 = document.getElementById("course1").checked;
 let course2 = document.getElementById("course2").checked;
  let course3 = document.getElementById("course3").checked;
```

```
    if (!course1 && !course2 && !course3) {
        error.innerHTML = "⚠ Please select at least one course.";
        return false;
    }

    alert("✅ Form submitted successfully!");
    return true;
}
```

	Output: 
Link of student Github profile where lab assignment has been uploaded	https://github.com/mangesh102006/web_technology
Conclusion	The Admission Registration Form was successfully designed and validated using JavaScript.
Plag Report (Similarity index < 12%)	**7%**
Date	**31th October 2025**