**WEB TECHNOLOGY AND MOBILE APPLICATIONS**

**EXPERIMENT-2**

**AIM:**

2 Write JavaScript to validate the following fields of the Registration page.

a) First Name (Name should contains alphabets and the length

Should not be less than 6 characters).

b) Password (Password should not be less than 6 characters length).

c) E-mail id (should not contain any invalid and must follow thestandard pattern name@domain.com)

d) Mobile Number (Phone number should contain 10 digits only).

e) Last Name and Address (should not be Empty).

**CODE:**

**Html.css**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Registration Form</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <div class="form-container">

        <h1>Registration Form</h1>

        <form onsubmit="return validateRegistrationForm()">

            <div class="form-group">

                <label for="firstName">First Name:</label>

                <input type="text" id="firstName" placeholder="Enter your first name">

            </div>

            <div class="form-group">

                <label for="lastName">Last Name:</label>

                <input type="text" id="lastName" placeholder="Enter your last name">

            </div>

            <div class="form-group">

                <label for="password">Password:</label>

                <input type="password" id="password" placeholder="Enter your password">

            </div>

            <div class="form-group">

                <label for="email">Email:</label>

                <input type="email" id="email" placeholder="Enter your email">

            </div>

            <div class="form-group">

                <label for="mobileNumber">Mobile Number:</label>

                <input type="text" id="mobileNumber" placeholder="Enter your mobile number">

            </div>

            <div class="form-group">

                <label for="address">Address:</label>

                <input type="text" id="address" placeholder="Enter your address">

            </div>

            <button type="submit">Register</button>

        </form>

    </div>

*<!-- Include the JavaScript file -->*

    <script src="script.js"></script>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Registration Form</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <div class="form-container">

        <h1>Registration Form</h1>

        <form onsubmit="return validateRegistrationForm()">

            <div class="form-group">

                <label for="firstName">First Name:</label>

                <input type="text" id="firstName" placeholder="Enter your first name">

            </div>

            <div class="form-group">

                <label for="lastName">Last Name:</label>

                <input type="text" id="lastName" placeholder="Enter your last name">

            </div>

            <div class="form-group">

                <label for="password">Password:</label>

                <input type="password" id="password" placeholder="Enter your password">

            </div>

            <div class="form-group">

                <label for="email">Email:</label>

                <input type="email" id="email" placeholder="Enter your email">

            </div>

            <div class="form-group">

                <label for="mobileNumber">Mobile Number:</label>

                <input type="text" id="mobileNumber" placeholder="Enter your mobile number">

            </div>

            <div class="form-group">

                <label for="address">Address:</label>

                <input type="text" id="address" placeholder="Enter your address">

            </div>

            <button type="submit">Register</button>

        </form>

    </div>

*<!-- Include the JavaScript file -->*

    <script src="script.js"></script>

</body>

</html>

**style.css**

body {

    font-family: 'Arial', sans-serif;

    background: linear-gradient(135deg, #6a11cb, #2575fc);

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

    color: #333;

}

.form-container {

    background: white;

    padding: 2rem;

    border-radius: 10px;

    box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);

    width: 100%;

    max-width: 400px;

    animation: fadeIn 1s ease-in-out;

}

h1 {

    text-align: center;

    margin-bottom: 1.5rem;

    font-size: 2rem;

    color: #2575fc;

}

.form-group {

    margin-bottom: 1.5rem;

}

.form-group label {

    display: block;

    margin-bottom: 0.1rem;

    font-weight: bold;

    color: #555;

}

.form-group input {

    width: 90%;

    padding: 0.75rem;

    border: 1px solid #ddd;

    border-radius: 5px;

    font-size: 1rem;

    transition: border-color 0.3s ease, box-shadow 0.3s ease;

}

.form-group input:focus {

    border-color: #2575fc;

    box-shadow: 0 0 5px rgba(37, 117, 252, 0.5);

    outline: none;

}

button {

    width: 100%;

    padding: 0.75rem;

    background: #2575fc;

    color: white;

    border: none;

    border-radius: 5px;

    font-size: 1rem;

    cursor: pointer;

    transition: background 0.3s ease, transform 0.3s ease;

}

button:hover {

    background: #1a5bbf;

    transform: translateY(-2px);

}

button:active {

    transform: translateY(0);

}

@keyframes fadeIn {

    from {

        opacity: 0;

        transform: translateY(-20px);

    }

    to {

        opacity: 1;

        transform: translateY(0);

    }

}

**Java.js**

function validateRegistrationForm() {

    const firstName = document.getElementById('firstName').value.trim();

    const lastName = document.getElementById('lastName').value.trim();

    const password = document.getElementById('password').value.trim();

    const email = document.getElementById('email').value.trim();

    const mobileNumber = document.getElementById('mobileNumber').value.trim();

    const address = document.getElementById('address').value.trim();

    const nameRegex = /^[A-Za-z]{6,}$/; *// Alphabets only, at least 6 characters*

    const passwordRegex = /^.{6,}$/; *// At least 6 characters*

    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/; *// Standard email pattern*

    const mobileRegex = /^\d{10}$/; *// Exactly 10 digits*

    if (!nameRegex.test(firstName)) {

        alert('First Name must contain only alphabets and be at least 6 characters long.');

        return false;

    }

*// Validate Password*

    if (!passwordRegex.test(password)) {

        alert('Password must be at least 6 characters long.');

        return false;

    }

    if (!emailRegex.test(email)) {

        alert('Please enter a valid email address (e.g., name@domain.com).');

        return false;

    }

    if (!mobileRegex.test(mobileNumber)) {

        alert('Mobile Number must contain exactly 10 digits.');

        return false;

    }

    if (lastName === '') {

        alert('Last Name cannot be empty.');

        return false;

    }

    if (address === '') {

        alert('Address cannot be empty.');

        return false;

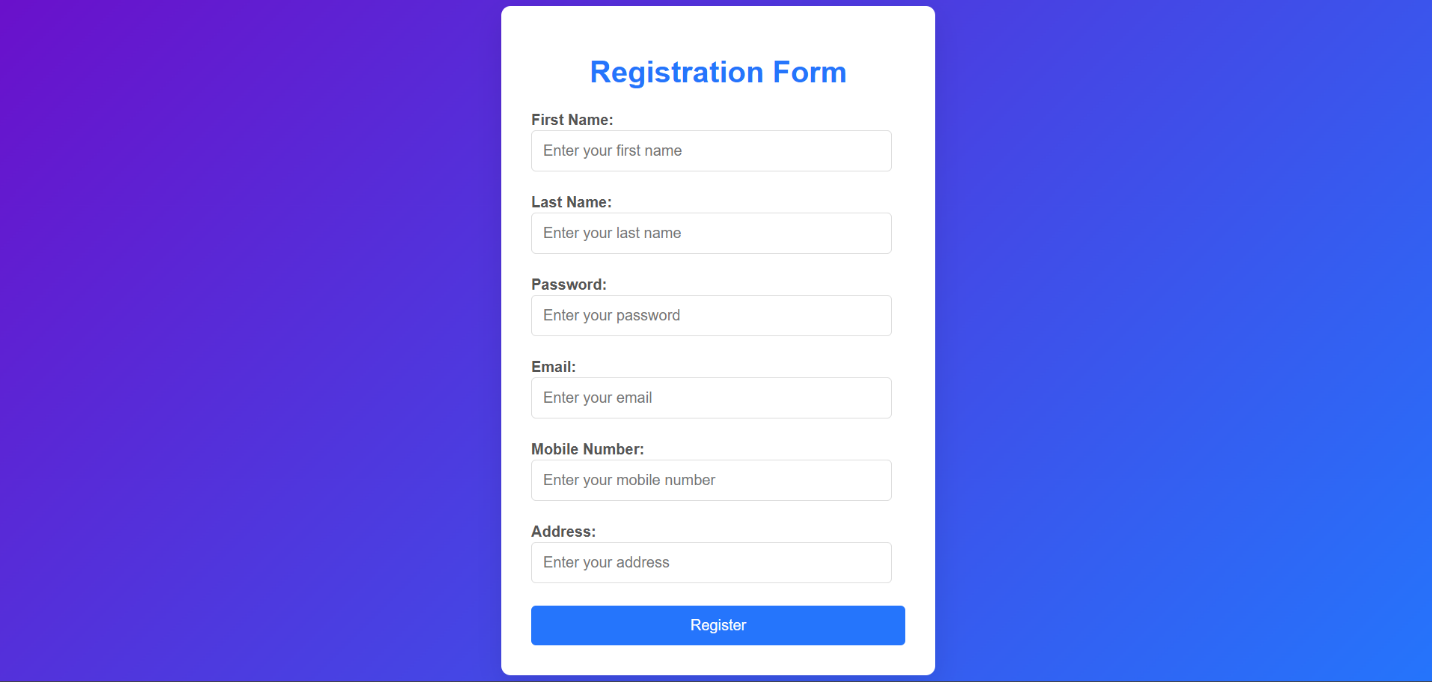
    }

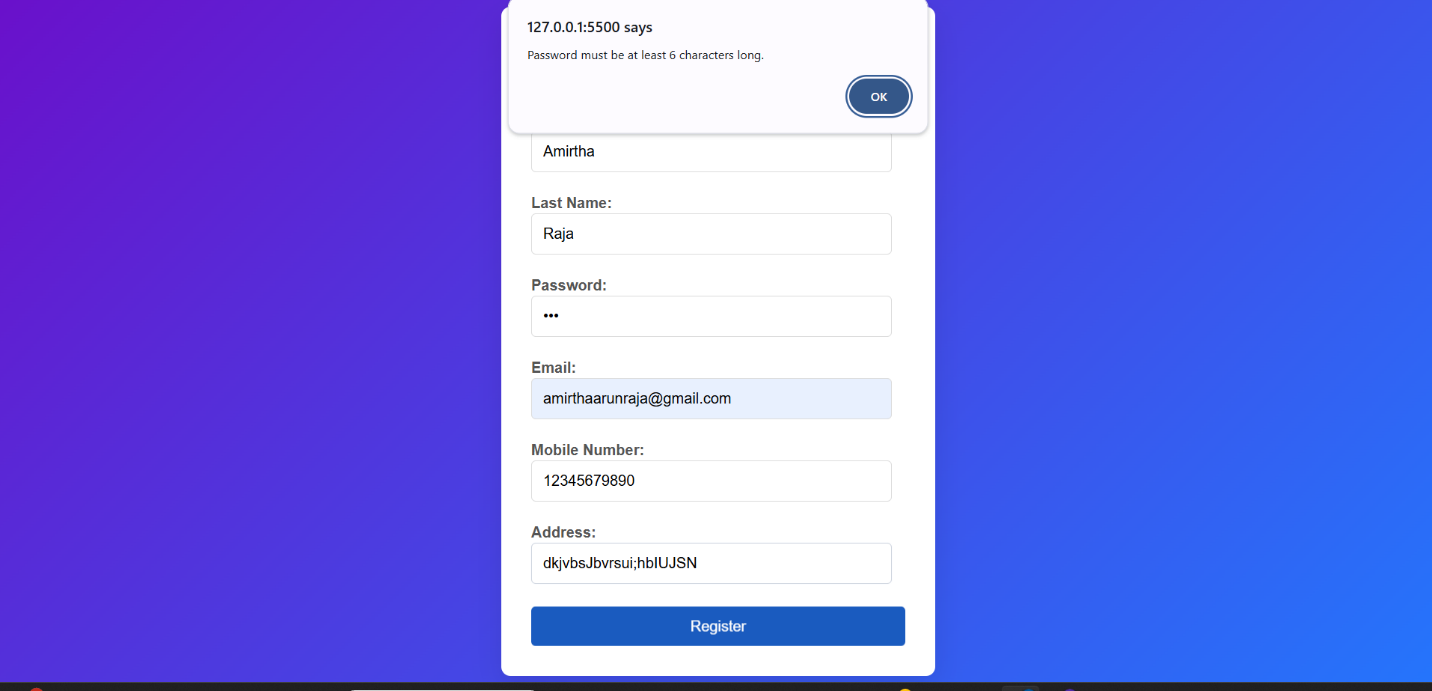
    alert('Registration form is valid!');

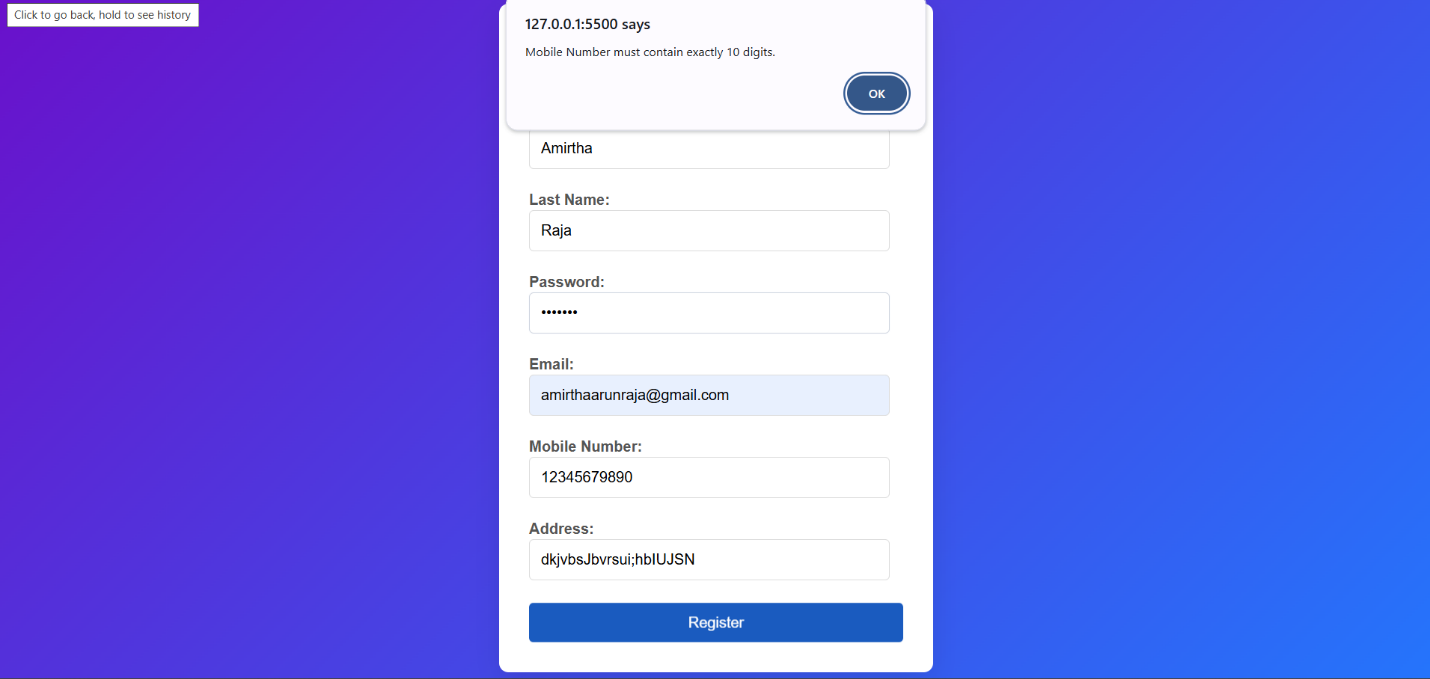
    return true;

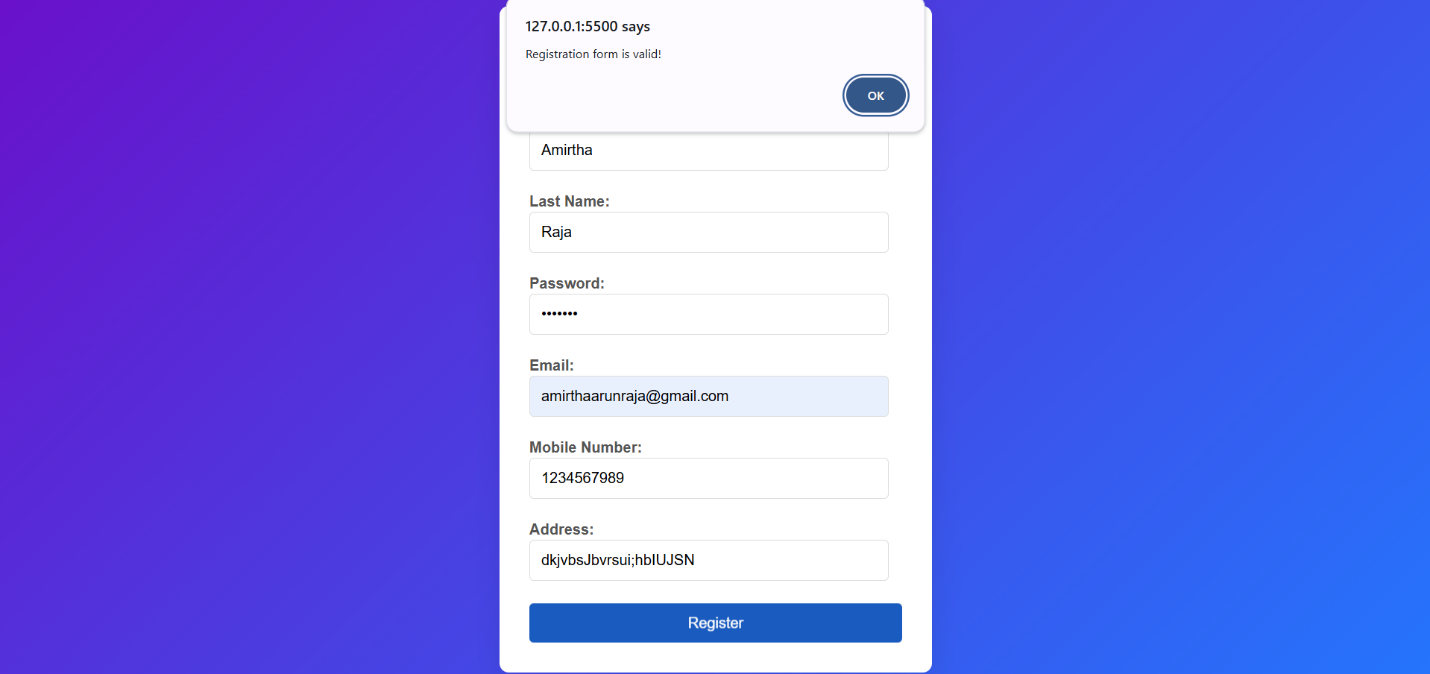
}

**OUTPUT:**

****

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****

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**Result**: Thus, JavaScript to validate the fields of the Registration page was completed successfully.