**EXPERIMENT-2**

**AIM:**

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 the standard pattern name@domain.com)

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

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

**CODE:**

<!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 href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

<style>

/\* Global Styles \*/

body {

    font-family: 'Poppins', sans-serif;

    background: linear-gradient(to right, #43cea2, #185a9d); /\* Green to Teal \*/

    margin: 0;

    padding: 0;

    min-height: 100vh;

    display: flex;

    justify-content: center;

    align-items: center;

}

/\* Container \*/

.form-container {

    background: #ffffff;

    padding: 40px 30px;

    border-radius: 12px;

    box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);

    width: 400px;

}

/\* Title \*/

h2 {

    text-align: center;

    color: #185a9d;

    margin-bottom: 20px;

}

/\* Form fields \*/

form label {

    display: block;

    font-weight: 600;

    margin-bottom: 5px;

    margin-top: 15px;

    color: #333;

}

form input[type="text"],

form input[type="password"],

form input[type="email"],

form textarea {

    width: 100%;

    padding: 12px 15px;

    margin-top: 5px;

    border: 1px solid #ccc;

    border-radius: 8px;

    background: #f1f1f1;

    font-size: 14px;

    transition: 0.3s;

}

form input[type="text"]:focus,

form input[type="password"]:focus,

form input[type="email"]:focus,

form textarea:focus {

    border-color: #43cea2;

    background: #fff;

    outline: none;

}

/\* Textarea \*/

textarea {

    resize: vertical;

    min-height: 100px;

}

/\* Submit Button \*/

form input[type="submit"] {

    width: 100%;

    padding: 12px;

    background: linear-gradient(to right, #43cea2, #185a9d);

    border: none;

    color: white;

    font-size: 16px;

    margin-top: 20px;

    border-radius: 8px;

    cursor: pointer;

    transition: background 0.3s;

}

form input[type="submit"]:hover {

    background: linear-gradient(to right, #185a9d, #43cea2);

}

/\* Responsive \*/

@media (max-width: 480px) {

    .form-container {

        width: 90%;

        padding: 30px 20px;

    }

}

</style>

</head>

<body>

<div class="form-container">

    <h2>Register</h2>

    <form id="registrationForm" onsubmit="return validateForm()">

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

        <input type="text" id="firstName" name="firstName" required>

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

        <input type="text" id="lastName" name="lastName" required>

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

        <input type="password" id="password" name="password" required>

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

        <input type="email" id="email" name="email" required>

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

        <input type="text" id="mobile" name="mobile" required>

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

        <textarea id="address" name="address" required></textarea>

        <input type="submit" value="Register">

    </form>

</div>

<script src="validate.js"></script>

</body>

</html>

Javascript

unction validateForm() {

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

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

    const password = document.getElementById("password").value;

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

    const mobile = document.getElementById("mobile").value.trim();

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

    // First Name Validation

    const namePattern = /^[A-Za-z]+$/;

    if (!namePattern.test(firstName) || firstName.length < 6) {

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

        return false;

    }

    // Password Validation

    if (password.length < 6) {

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

        return false;

    }

    // Email Validation

    const emailPattern = /^[a-zA-Z0-9.\_-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;

    if (!emailPattern.test(email)) {

        alert("Please enter a valid email address.");

        return false;

    }

    // Mobile Number Validation

    const mobilePattern = /^[0-9]{10}$/;

    if (!mobilePattern.test(mobile)) {

        alert("Mobile number must be exactly 10 digits.");

        return false;

    }

    // Last Name Validation

    if (lastName === "") {

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

        return false;

    }

    // Address Validation

    if (address === "") {

        alert("Address cannot be empty.");

        return false;

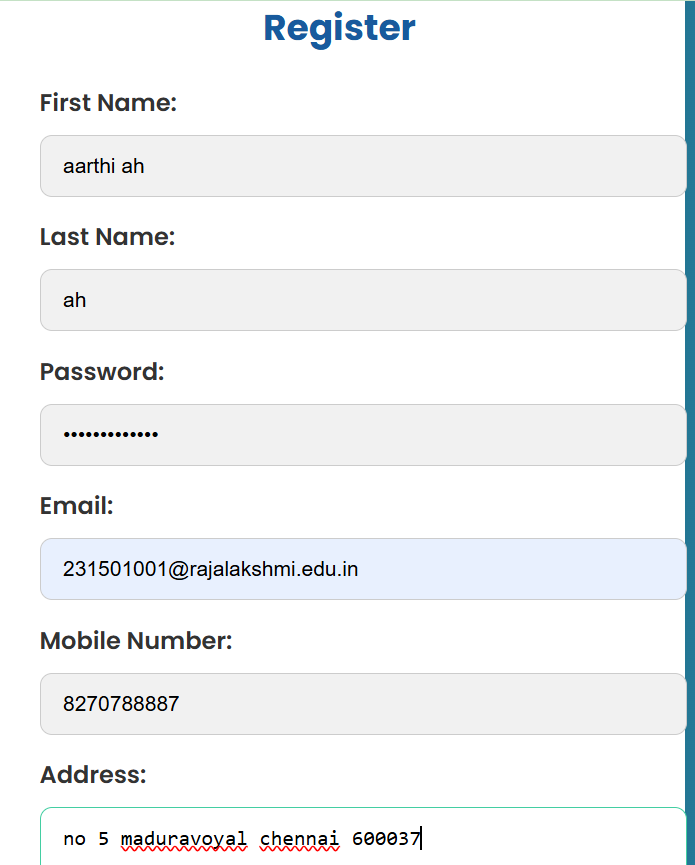
    }

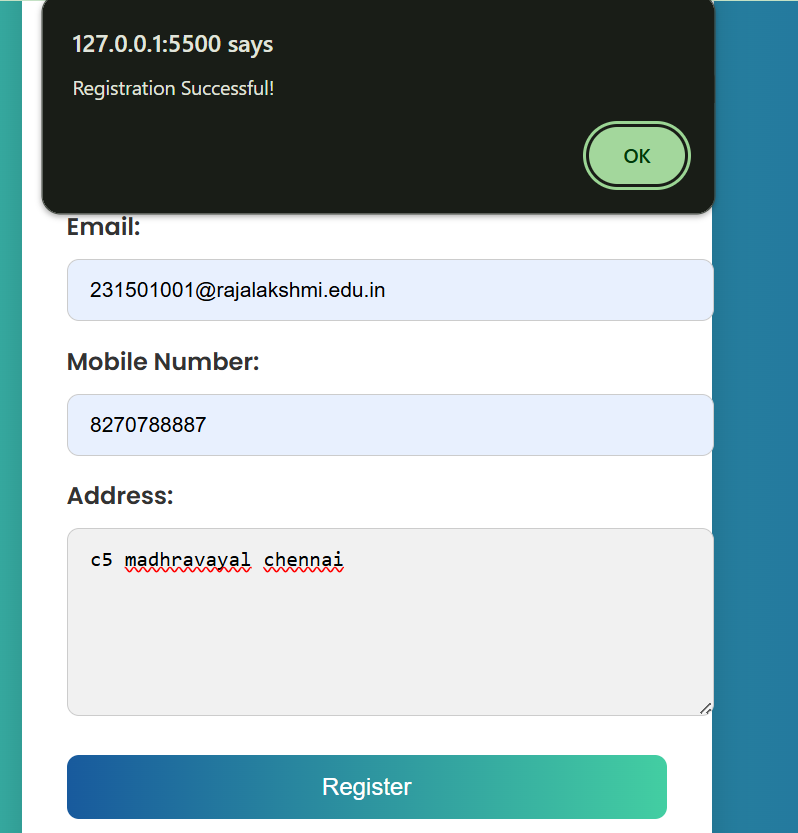
    // All validations passed

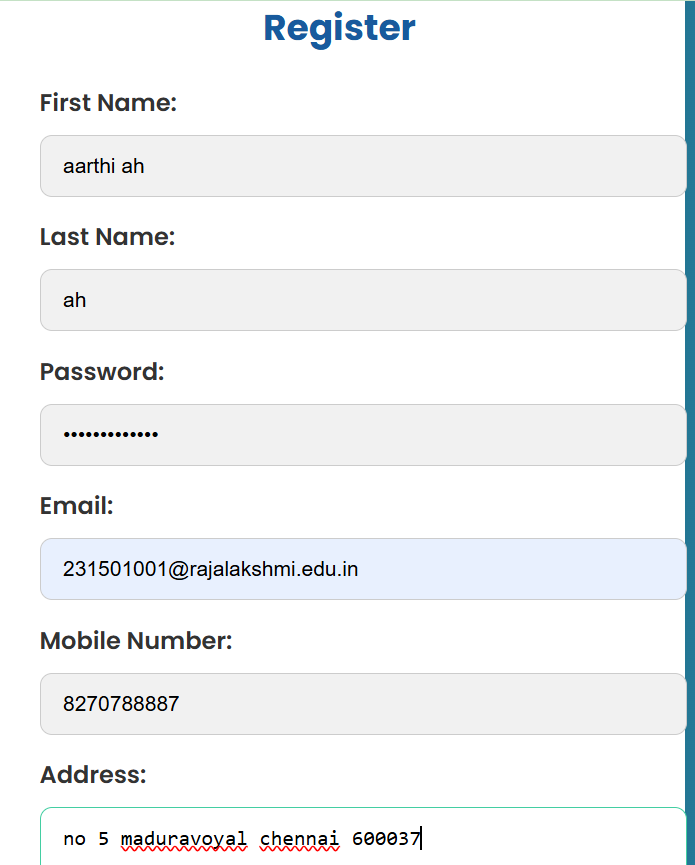
    alert("Registration Successful!");

    return true;

}

**OUTPUT:** ****



****

**RESULT:** Thus, a registration form was executed successfully.