

## EXP: 2 JAVASCRIPT

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 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).

**AIM:**

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

**ALGORITHM:**

### Step 1: Create the HTML Form

- Add input fields for First Name, Last Name, Email, Password, Mobile Number, and Address.
- Add a Submit Button to trigger validation. **Step 2: Apply Elegant CSS Styling**
- Add responsive styling with hover effects.
- Improve form layout, input fields, and button styles.

### Step 3: Add JavaScript for Validation

- Validate each field and show error messages if invalid.
- Display "Registration Successful!" if all inputs are valid.

### Step 4: Full Working Code in One HTML File

- Copy and paste the code below into an `.html` file and open it in a browser.

**PROGRAM:**

```
<!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>

<style>
body {
    font-family: Arial, sans-serif;
    background: linear-gradient(135deg, #ff9a9e, #fad0c4);
display: flex;        justify-content: center;        align-
items: center;        height: 100vh;        margin: 0;
    }
    .container {
background: white;
padding: 20px;
border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
width: 350px;        text-align: center;
    }    h2 {
color: #333;
    }    input {
width: 100%;
padding: 10px;
margin: 8px 0;
        border: 1px solid #ccc;
        border-radius: 5px;
        font-size: 16px;
    }    input:focus {
border-color: #ff6f61;
outline: none;
        box-shadow: 0 0 5px rgba(255, 111, 97, 0.5);
    }    .error {
color: red;        font-size:
```

```
14px;      text-align: left;
margin-bottom: 10px;
    }      button {
width: 100%;
padding: 10px;
background: #ff6f61;
color: white;      border:
none;      border-radius:
5px;      font-size: 16px;
cursor: pointer;
    }
    button:hover {
background: #e55b50;
    }
</style>
</head>
<body>
<div class="container">
    <h2>Register Here</h2>
    <form id="registrationForm">
        <input type="text" id="firstName" placeholder="First Name">
        <div class="error" id="firstNameError"></div>

        <input type="text" id="lastName" placeholder="Last Name">
        <div class="error" id="lastNameError"></div>

        <input type="email" id="email" placeholder="Email">
        <div class="error" id="emailError"></div>

        <input type="password" id="password" placeholder="Password">
```

```
<div class="error" id="passwordError"></div>
```

```
<input type="text" id="mobile" placeholder="Mobile Number">
```

```
<div class="error" id="mobileError"></div>
```

```
<input type="text" id="address" placeholder="Address">
```

```
<div class="error" id="addressError"></div>
```

```
<button type="button" onclick="validateForm()">Register</button>
```

```
</form>
```

```
</div>
```

```
<script>
```

```
function validateForm() {
```

```
let isValid = true;
```

```
let firstName = document.getElementById("firstName").value.trim();
```

```
let lastName = document.getElementById("lastName").value.trim();
```

```
let email = document.getElementById("email").value.trim();    let
```

```
password = document.getElementById("password").value.trim();    let
```

```
mobile = document.getElementById("mobile").value.trim();    let
```

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

```
// Clear previous error messages
```

```
document.getElementById("firstNameError").innerText = "";
```

```
document.getElementById("lastNameError").innerText = "";
```

```
document.getElementById("emailError").innerText = "";
```

```
document.getElementById("passwordError").innerText = "";
```

```
document.getElementById("mobileError").innerText = "";
```

```
document.getElementById("addressError").innerText = "";
```

```
// First Name Validation

if (!/^[A-Za-z]{6,}$/.test(firstName)) {

    document.getElementById("firstNameError").innerText = "First name must be at
least 6 letters.";    isValid = false;

}

// Last Name Validation

if (lastName === "") {

    document.getElementById("lastNameError").innerText = "Last name cannot be
empty.";

    isValid = false;

}

// Email Validation

if (!/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/.test(email)) {
document.getElementById("emailError").innerText = "Enter a valid email (e.g.,
name@domain.com).";

    isValid = false;

}

// Password Validation

if (password.length < 6) {

    document.getElementById("passwordError").innerText = "Password must be at least
6 characters.";

    isValid = false;

}

// Mobile Number Validation

if (!/^\d{10}$/.test(mobile)) {

    document.getElementById("mobileError").innerText = "Enter a valid 10-digit mobile
number.";

    isValid = false;

}
```

```
    }

    // Address Validation
    if (address === "") {
        document.getElemen
tById("addressError").innerText = "Address cannot be empty.";    isValid = false;
    }

    if (isValid) {
        alert("Registration Successful!");
    }
}
</script>
</body>
</html>
```

**OUTPUT:**

The image shows a registration form titled "Register Here" centered on a light red background. The form is a white rounded rectangle with a subtle drop shadow. It contains six input fields and a button, all with rounded corners and thin borders. The fields are stacked vertically. The first field contains "Madhu Mitha". The second field contains "G". The third field contains "231501089@rajalakshmi.edu.in" and has a light blue background. The fourth field contains ten dots, representing a password. The fifth field contains "9363565702" and has a light red border. The sixth field contains "sriperumbudur". Below the fields is a solid red button with the text "Register" in white.

**Register Here**

Madhu Mitha

G

231501089@rajalakshmi.edu.in

.....

9363565702

sriperumbudur

Register

**RESULT:** The Registration Form was successfully created using HTML, CSS, and JavaScript.