

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.getElementById("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 pink background. The form is a white rounded rectangle with a subtle drop shadow. It contains the following elements from top to bottom: a title "Register Here" in bold black font; a text input field containing "Miruthula"; a text input field containing "B"; a text input field containing "231501100@rajalakshmi.edu.in"; a password input field with ten dots; a text input field containing "9876543210"; a text input field containing "rajalakshmi nagar thandalam chennai" with a light blue background; and a red "Register" button with white text and rounded corners.

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