

## 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:**

## Registration Form

First Name:

Kishanth

Last Name:

raja

Password:

.....

E-mail:

kish@gmail.com

Mobile Number:

9078612345

Address:

No 45,Mullai street, Kanchipuram - 631502

Submit

Already have an account? [Login here](#)

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