

2.) JAVASCRIPT

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:

This page says

Registration Successful!

OK

Register Here

kasbkjbdoa

sfggdh

hsff@gmail.com

.....

9876543457

gfdg

Register

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