### **2.JavaScript(.js)**

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### **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.  
    
  **Index.html**

<!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: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

background: linear-gradient(135deg, #a1c4fd, #c2e9fb);

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.container {

background: white;

padding: 30px;

border-radius: 15px;

box-shadow: 0 10px 20px rgba(0, 0, 0, 0.1);

width: 400px;

text-align: center;

box-sizing: border-box;

}

h2 {

color: #333;

font-size: 28px;

margin-bottom: 20px;

font-weight: 600;

}

input {

width: 100%;

padding: 12px;

margin: 12px 0;

border: 1px solid #ccc;

border-radius: 8px;

font-size: 16px;

outline: none;

transition: border-color 0.3s ease, box-shadow 0.3s ease;

}

input:focus {

border-color: #4caf50;

box-shadow: 0 0 8px rgba(76, 175, 80, 0.3);

}

.error {

color: red;

font-size: 14px;

text-align: left;

margin-bottom: 10px;

}

button {

width: 100%;

padding: 12px;

background: #4caf50;

color: white;

border: none;

border-radius: 8px;

font-size: 18px;

cursor: pointer;

transition: background 0.3s ease;

}

button:hover {

background: #45a049;

}

.form-group {

margin-bottom: 20px;

}

.form-group input {

width: calc(100% - 20px);

}

</style>

</head>

<body>

<div class="container">

<h2>Register</h2>

<form id="registrationForm">

<div class="form-group">

<input type="text" id="firstName" placeholder="First Name">

<div class="error" id="firstNameError"></div>

</div>

<div class="form-group">

<input type="text" id="lastName" placeholder="Last Name">

<div class="error" id="lastNameError"></div>

</div>

<div class="form-group">

<input type="email" id="email" placeholder="Email">

<div class="error" id="emailError"></div>

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

</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!");

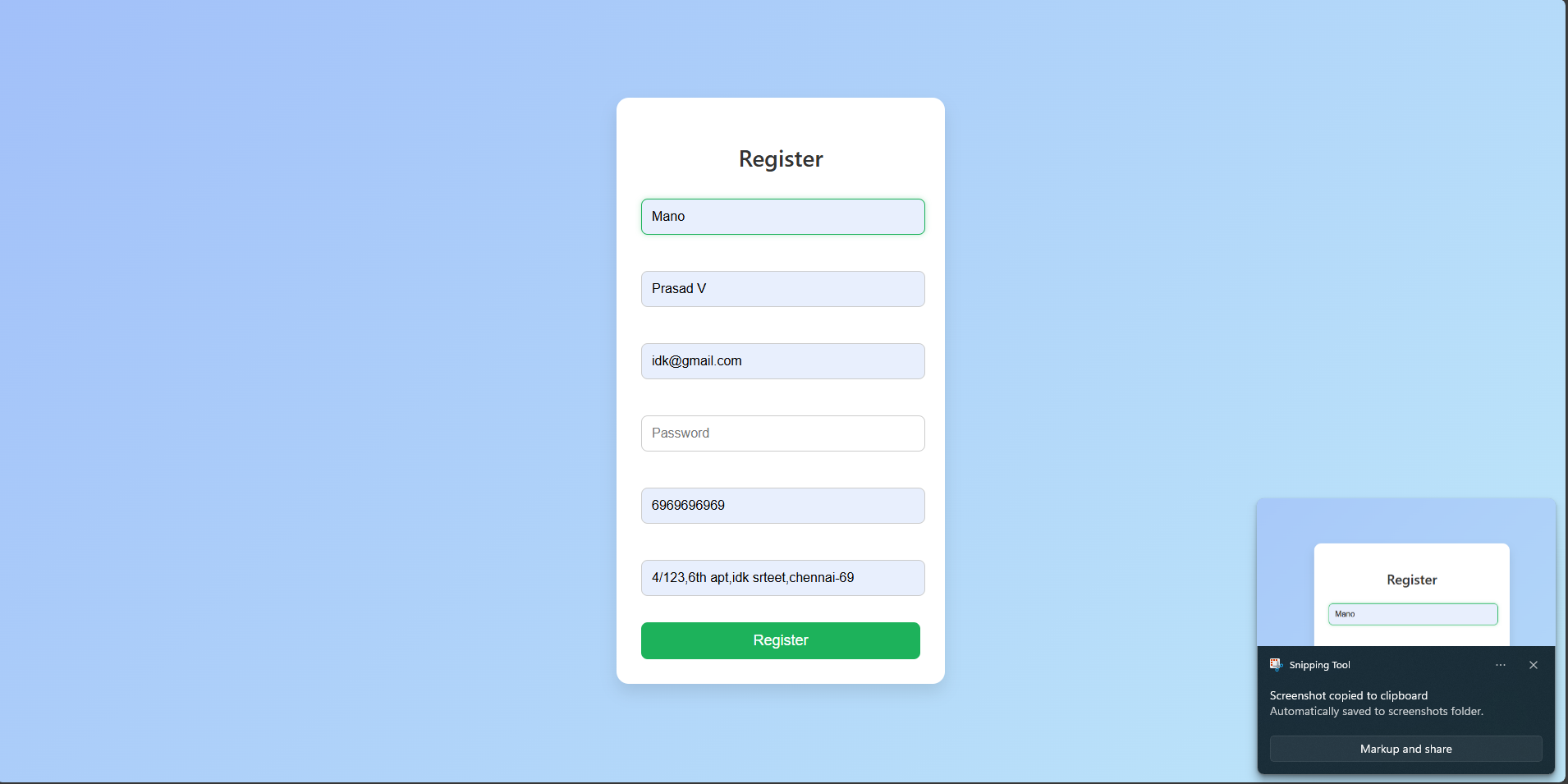
}

}

</script>

</body>

</html>

****

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