

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:

1.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>
```

```
<link rel="icon" href="image copy.png">
```

```
<link rel="stylesheet" href="styles.css">
```

```
</head>
```

```
<body>
```

```
<form id="registrationForm">
```

```
<div>
```

```
<label for="firstName">First Name:</label>
```

```
<input type="text" id="firstName" name="firstName" required>
```

```
<span id="firstNameError" class="error-message"></span>
```

```
</div>
```

```
<div>
```

```
<label for="lastName">Last Name:</label>
```

```
<input type="text" id="lastName" name="lastName" required>
```

```
<span id="lastNameError" class="error-message"></span>
```

```
</div>
```

```
<div>
```

```
<label for="password">Password:</label>
```

```
<input type="password" id="password" name="password" required>
```

```
<span id="passwordError" class="error-message"></span>
```

```
</div>
```

```
<div>
```

```
<label for="email">Email:</label>
```

```
<input type="email" id="email" name="email" required>
```

```
<span id="emailError" class="error-message"></span>
```

```
</div>
```

```
<div>
```

```
<label for="mobile">Mobile Number:</label>
<input type="tel" id="mobile" name="mobile" required>
<span id="mobileError" class="error-message"></span>
</div>

<div>
  <label for="address">Address:</label>
  <textarea id="address" name="address" required></textarea>
  <span id="addressError" class="error-message"></span>
</div>

<button type="submit">Register</button>
</form>
```

```
<script src="script.js"></script>
</body>
</html>
```

2.STYLES.CSS

```
body {
  font-family: Arial, sans-serif;
  background-image: url(image.png);
  background-color: #f4f4f4;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}
```

```
form {
```

```
background: white;
padding: 20px;
border-radius: 8px;
box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
width: 300px;
}
```

```
div {
  margin-bottom: 15px;
}
```

```
label {
  display: block;
  font-weight: bold;
  margin-bottom: 5px;
}
```

```
input, textarea {
  width: 95%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 4px;
  font-size: 14px;
}
```

```
textarea {
  resize: none;
}
```

```
button {
  width: 100%;
```

```
padding: 10px;
background-color: #28a745;
color: white;
border: none;
border-radius: 4px;
font-size: 16px;
cursor: pointer;
}
```

```
button:hover {
    background-color: #218838;
}
```

```
.error-message {
    color: red;
    font-size: 12px;
    margin-top: 5px;
    display: block;
}
```

3.SCRIPT.JS

```
document.getElementById("registrationForm").addEventListener("submit", function(event) {
    event.preventDefault(); // Prevent form submission
    let isValid = true;

    // Get form fields
    const firstName = document.getElementById("firstName");
    const lastName = document.getElementById("lastName");
    const password = document.getElementById("password");
    const email = document.getElementById("email");
    const mobile = document.getElementById("mobile");
    const address = document.getElementById("address");
```

```
// Get error message elements

const firstNameError = document.getElementById("firstNameError");
const lastNameError = document.getElementById("lastNameError");
const passwordError = document.getElementById("passwordError");
const emailError = document.getElementById("emailError");
const mobileError = document.getElementById("mobileError");
const addressError = document.getElementById("addressError");


// Reset previous error messages

firstNameError.textContent = "";
lastNameError.textContent = "";
passwordError.textContent = "";
emailError.textContent = "";
mobileError.textContent = "";
addressError.textContent = "";


// Validation rules

const namePattern = /^[A-Za-z]+$;/

if (!firstName.value.match(namePattern) || firstName.value.length < 6) {

    firstNameError.textContent = "First Name must be at least 6 characters and contain only alphabets";

    isValid = false;

}

if (lastName.value.trim() === "") {

    lastNameError.textContent = "Last Name is required";

    isValid = false;

}

if (password.value.length < 6) {
```

```
passwordError.textContent = "Password must be at least 6 characters";
isValid = false;
}

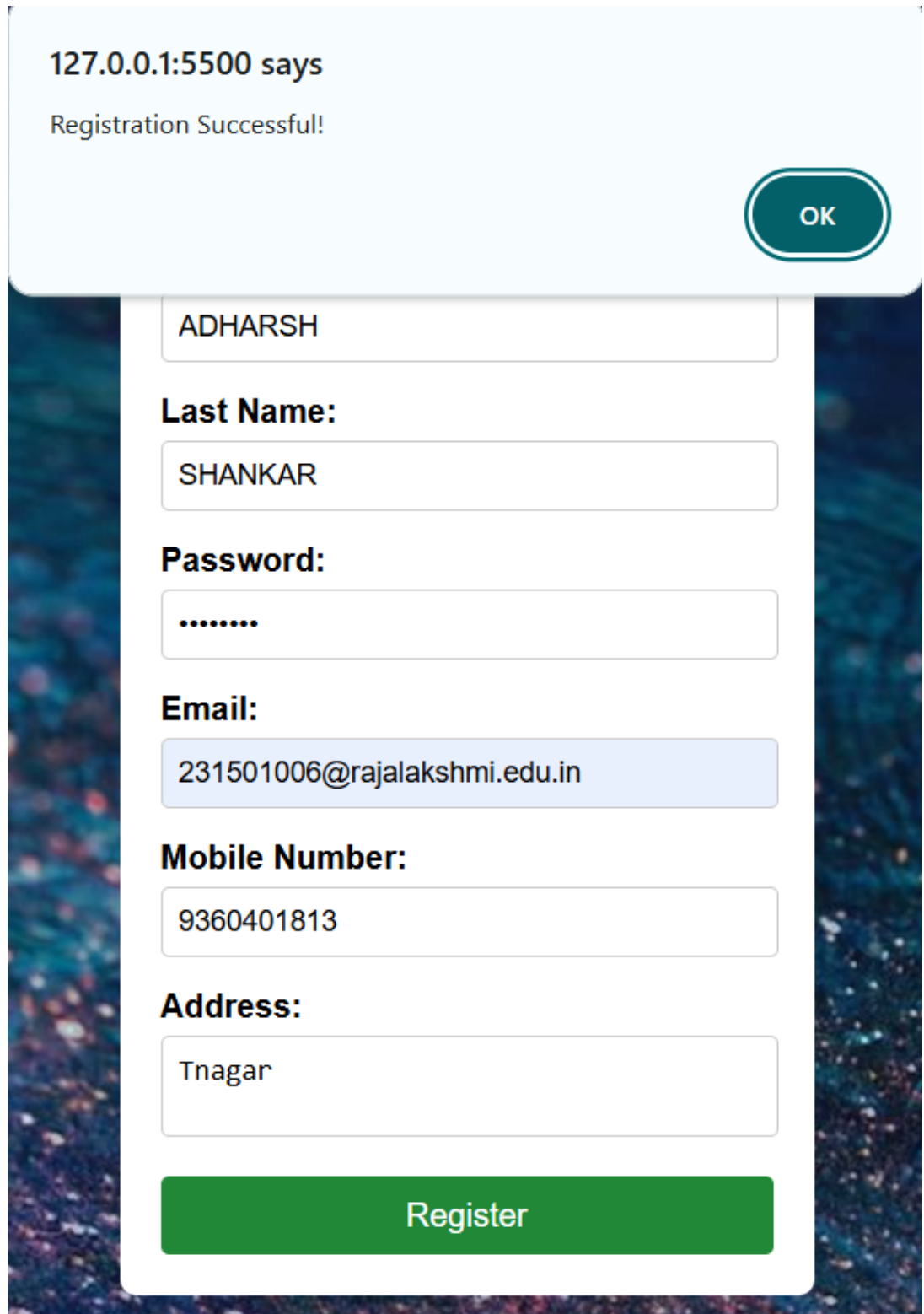
const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
if (!email.value.match(emailPattern)) {
    emailError.textContent = "Enter a valid email (e.g., name@domain.com)";
    isValid = false;
}

const mobilePattern = /^[0-9]{10}$/;
if (!mobile.value.match(mobilePattern)) {
    mobileError.textContent = "Enter a valid 10-digit mobile number";
    isValid = false;
}

if (address.value.trim() === "") {
    addressError.textContent = "Address is required";
    isValid = false;
}

// If valid, submit the form (or perform any other action)
if (isValid) {
    alert("Registration Successful!");
    this.submit();
}
});
```

OUTPUT:



The image shows a registration form with a light blue background and a dark blue, starry pattern on the sides. A light blue modal box is overlaid at the top, displaying the message "127.0.0.1:5500 says" and "Registration Successful!" with an "OK" button. The form fields are as follows:

Field Label	Value
First Name	ADHARSH
Last Name	SHANKAR
Password
Email	231501006@rajalakshmi.edu.in
Mobile Number	9360401813
Address	Tnagar

At the bottom of the form is a green "Register" button.

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