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">

```html
    <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:
```
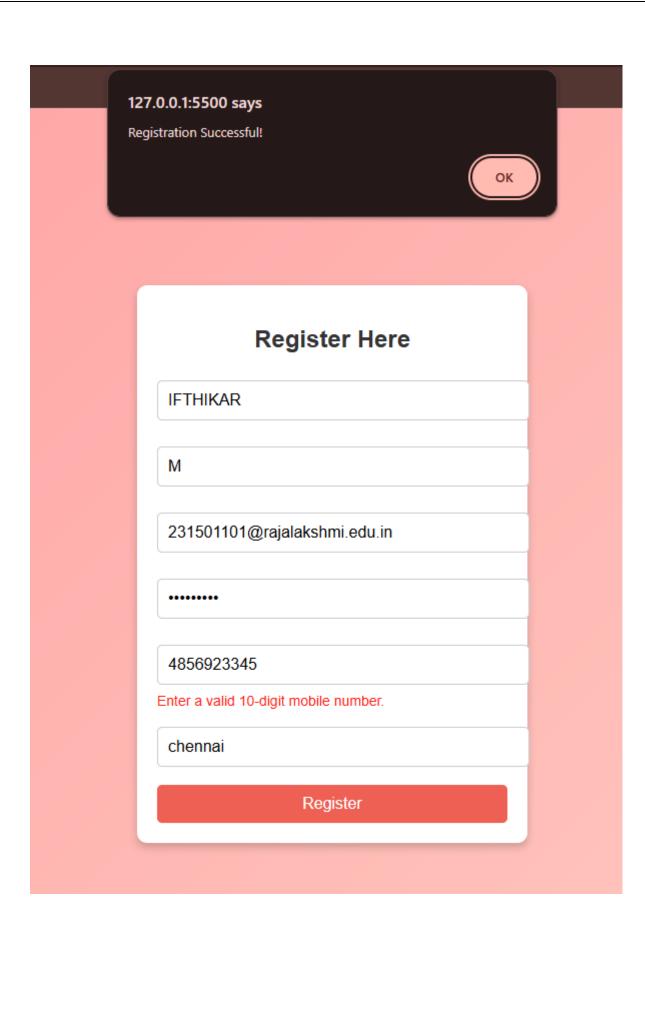
```css
14px;          text-align: left;
margin-bottom: 10px;
     }          button {
width: 100%;
padding: 10px;
background: #ff6f61;
color: white;          border:
none;          border-radius:
5px;          font-size: 16px;
cursor: pointer;
     }
     button:hover {
background: #e55b50;
     }
   </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">
```

```html
        <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 = "";
```

```javascript
    // 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:

Register Here

IFTHIKAR

M

231501101@rajalakshmi.edu.in

•••••••••

4856923345

Enter a valid 10-digit mobile number.

chennai

Register

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