**EXP NO:** **2**

**JavaScript Form Validation for Registration Page**

**AIM:**

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).

**CODE:**

**Validate.html**

<!DOCTYPE html>

<html>

<head>

    <title>Registration Form</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f2f2f2;

            display: flex;

            flex-direction: column;

            align-items: center;

            padding: 20px;

        }

        form {

            background-color: white;

            padding: 20px;

            padding-right: 30px;

            border-radius: 10px;

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

            width: 320px;

        }

        label {

            font-weight: bold;

        }

        input, textarea {

            width: 100%;

            margin-top: 5px;

            margin-bottom: 10px;

            padding: 8px;

            border: 1px solid #ccc;

            border-radius: 6px;

        }

        .error-message {

            color: red;

            font-size: 13px;

            margin-bottom: 10px;

        }

        input[type="submit"] {

            background-color: #4CAF50;

            color: white;

            cursor: pointer;

            font-weight: bold;

            border: none;

        }

        input[type="submit"]:hover {

            background-color: #45a049;

        }

        h1 {

            margin-bottom: 20px;

        }

    </style>

</head>

<body>

    <h1>Registration Form</h1>

    <form name="RegForm" onsubmit="return validateForm()">

        <label for="firstname">First Name:</label>

        <input type="text" id="firstname" name="firstname" required>

        <span id="firstname-error" class="error-message"></span>

        <label for="lastname">Last Name:</label>

        <input type="text" id="lastname" name="lastname" required>

        <span id="lastname-error" class="error-message"></span>

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

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

        <span id="password-error" class="error-message"></span>

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

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

        <span id="email-error" class="error-message"></span>

        <label for="phone">Phone Number:</label>

        <input type="tel" id="phone" name="phone" required>

        <span id="phone-error" class="error-message"></span>

        <label for="address">Address:</label>

        <textarea id="address" name="address" required></textarea>

        <span id="address-error" class="error-message"></span>

        <input type="submit" value="Submit">

    </form>

    <script>

        function validateForm() {

            let isValid = true;

            let firstname = document.getElementById("firstname").value.trim();

            let lastname = document.getElementById("lastname").value.trim();

            let password = document.getElementById("password").value;

            let email = document.getElementById("email").value.trim();

            let phone = document.getElementById("phone").value.trim();

            let address = document.getElementById("address").value.trim();

            const firstnameError = document.getElementById("firstname-error");

            const lastnameError = document.getElementById("lastname-error");

            const passwordError = document.getElementById("password-error");

            const emailError = document.getElementById("email-error");

            const phoneError = document.getElementById("phone-error");

            const addressError = document.getElementById("address-error");

            firstnameError.textContent = "";

            lastnameError.textContent = "";

            passwordError.textContent = "";

            emailError.textContent = "";

            phoneError.textContent = "";

            addressError.textContent = "";

            if (!/^[A-Za-z]{6,}$/.test(firstname)) {

                firstnameError.textContent = "First Name must be alphabetic and at least 6 characters.";

                isValid = false;

            }

            if (lastname === "") {

                lastnameError.textContent = "Last Name should not be empty.";

                isValid = false;

            }

            if (password.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 (!emailPattern.test(email)) {

                emailError.textContent = "Invalid email format (e.g., name@domain.com).";

                isValid = false;

            }

            if (!/^\d{10}$/.test(phone)) {

                phoneError.textContent = "Phone number must be exactly 10 digits.";

                isValid = false;

            }

            if (address === "") {

                addressError.textContent = "Address should not be empty.";

                isValid = false;

            }

            if (isValid) {

                alert("Registered successfully!");

            }

            return isValid;

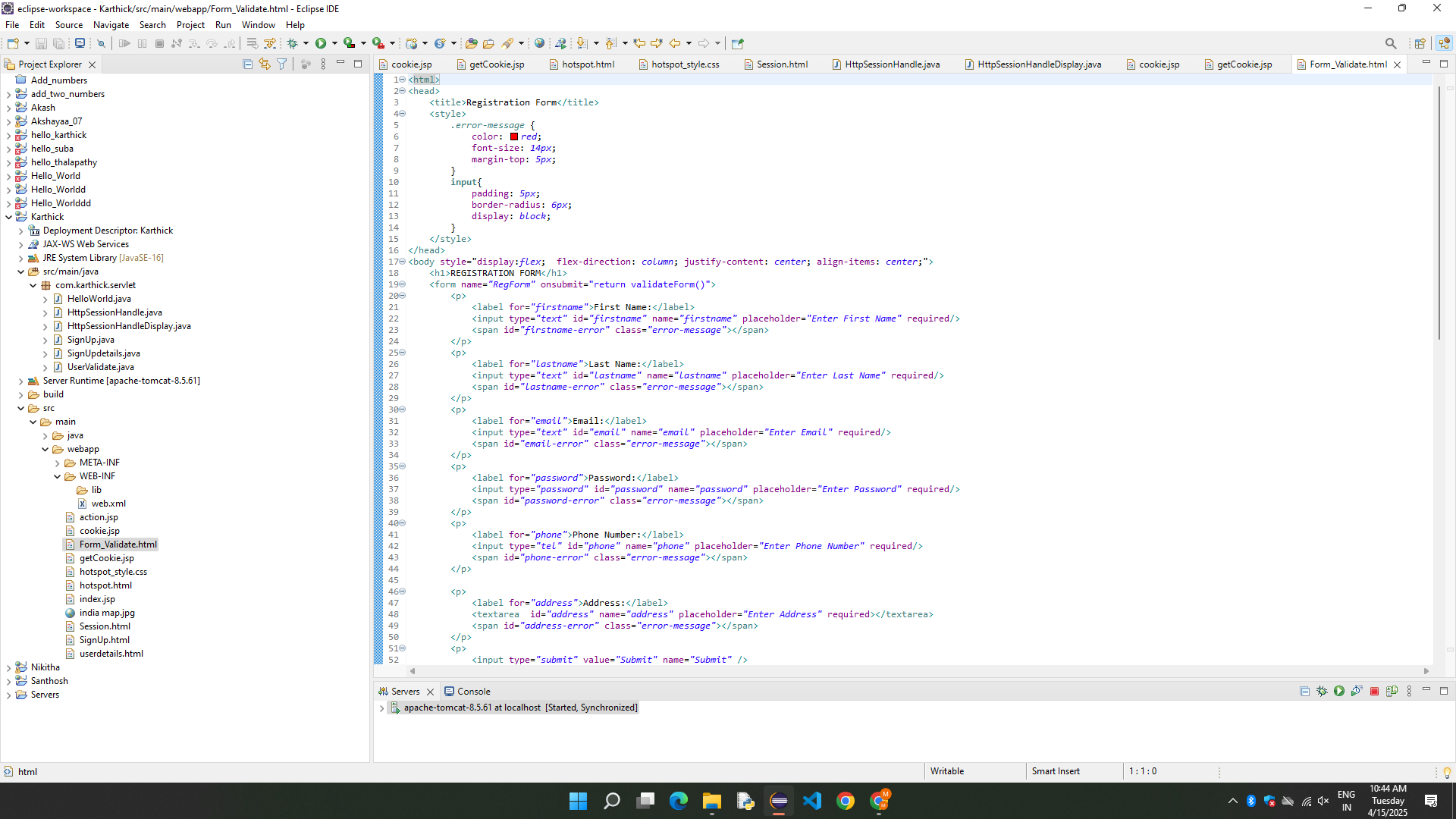
        }

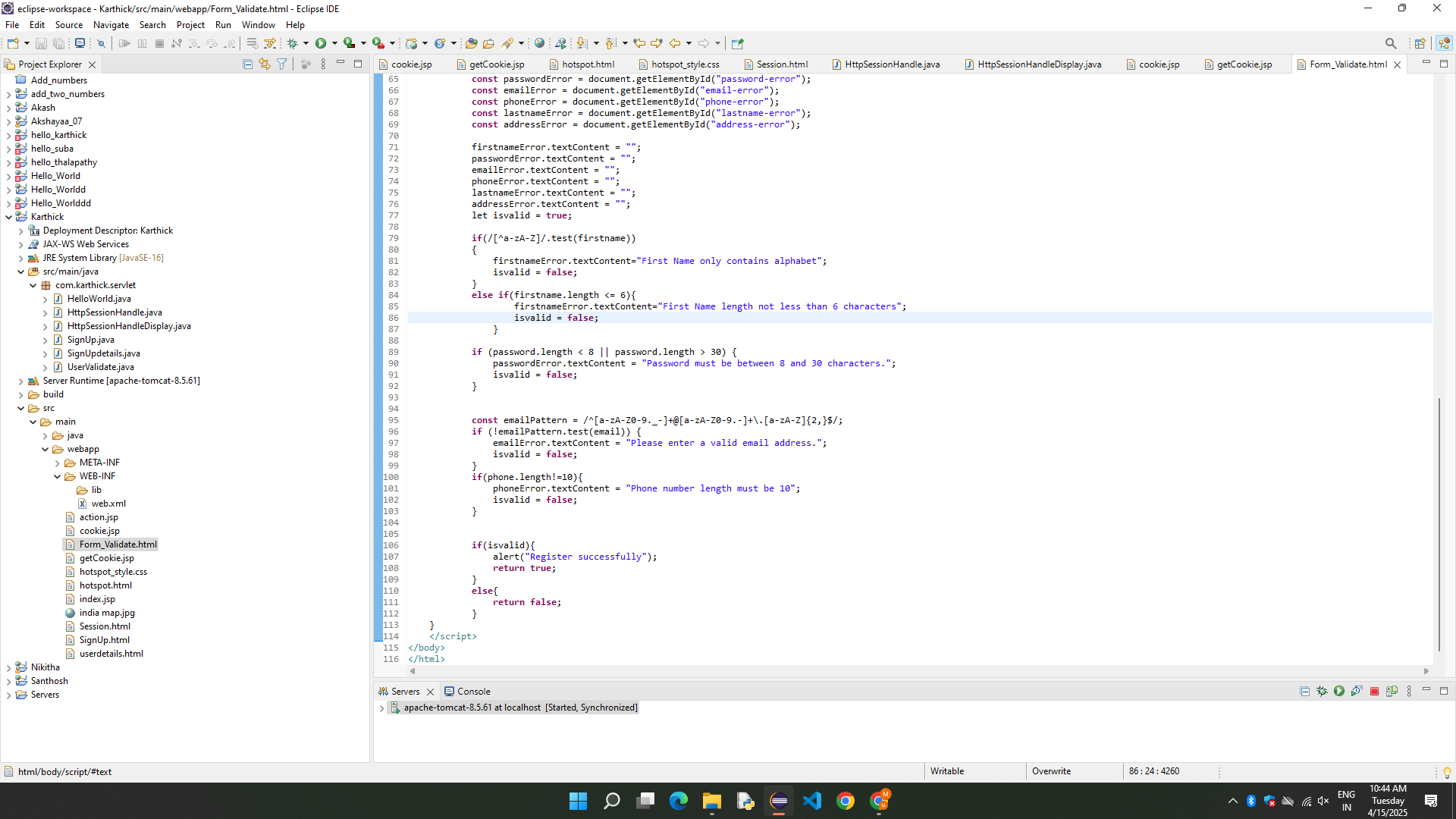
    </script>

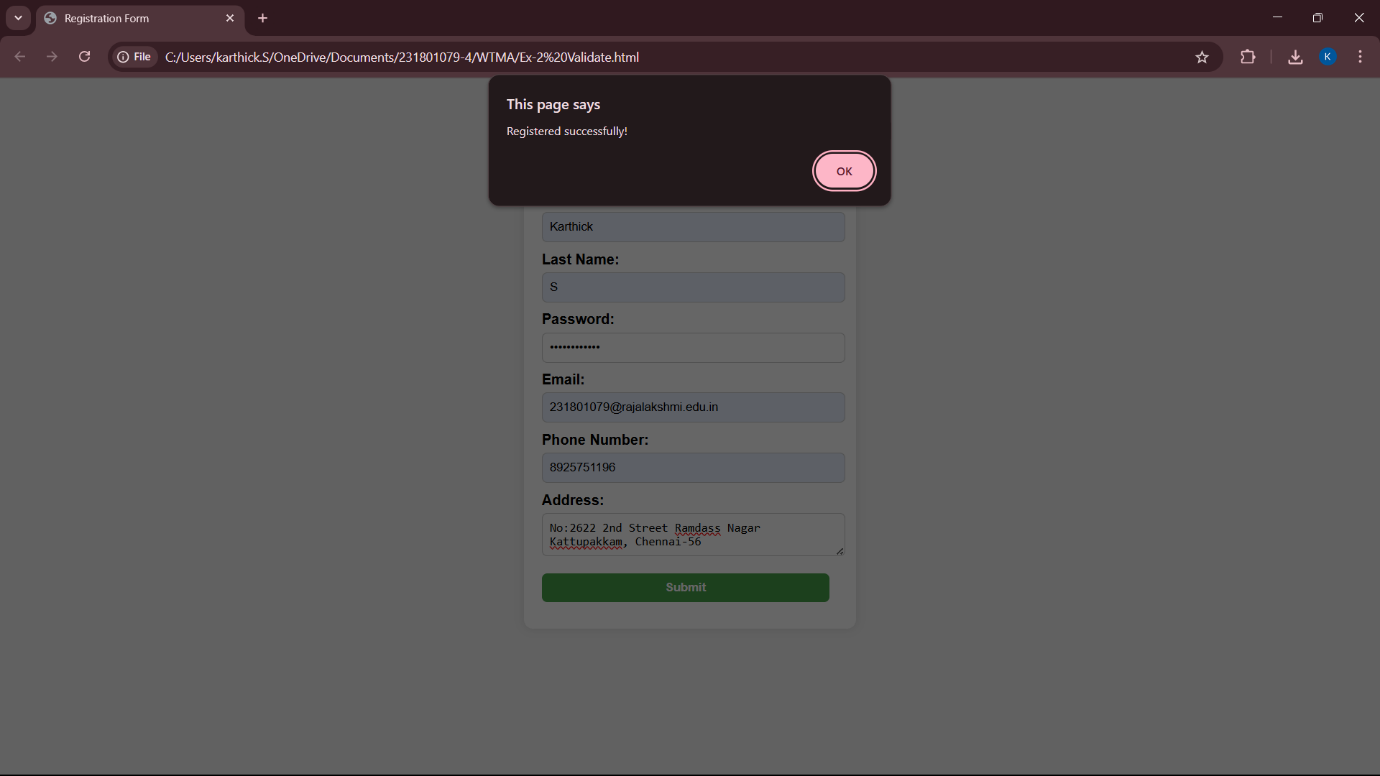
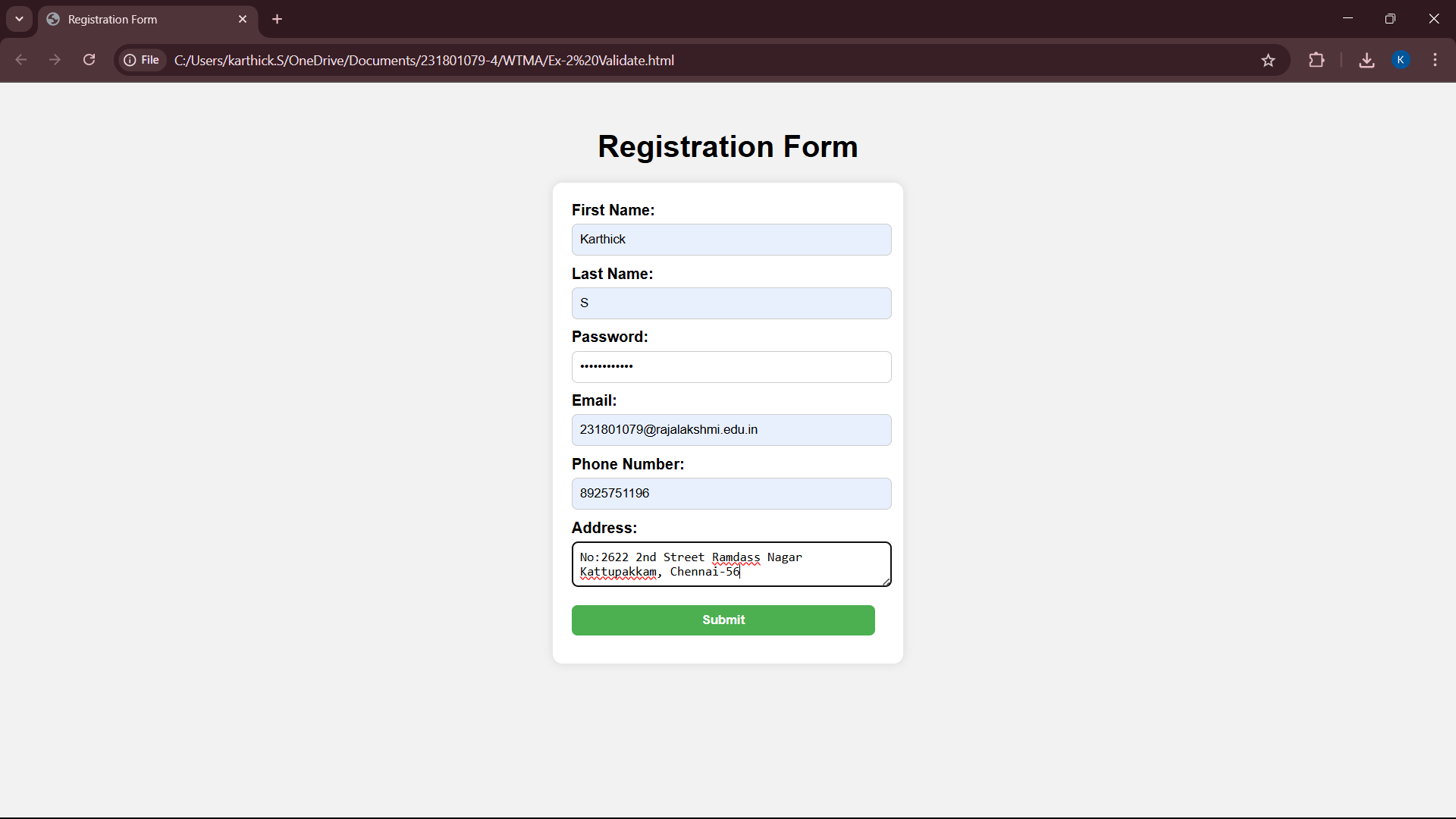
</body>

</html>

**OUTPUT**:







**RESULT:**

The Registration form with required validation is successfully implemented.