AIM :

To create a JavaScript-based form validation for a registration page to ensure the following:

1. First Name: Contains only alphabets and is at least 6 characters long.
2. Password: Is at least 6 characters long.
3. E-mail ID: Follows the standard pattern name@domain.com and is valid.
4. Mobile Number: Contains exactly 10 digits.
5. Last Name and Address: Cannot be empty.

CODE :

```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>

    <script>

      function validateForm() {

        // Validate First Name

        var firstName = document.getElementById("firstName").value;

        var firstNamePattern = /^[A-Za-z]+$/;

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

          alert("First Name must contain only alphabets and be at least 6 characters long.");

          return false;

        }

        // Validate Password

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

        if (password.length < 6) {

          alert("Password must be at least 6 characters long.");

          return false;

        }
```

```
        // Validate Email

        var email = document.getElementById("email").value;

        var emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

        if (!email.match(emailPattern)) {

            alert("Please enter a valid email address (e.g., name@domain.com).");

            return false;

        }


        // Validate Mobile Number

        var mobile = document.getElementById("mobile").value;

        var mobilePattern = /^[0-9]{10}$/;

        if (!mobile.match(mobilePattern)) {

            alert("Mobile number must be exactly 10 digits long.");

            return false;

        }


        // Validate Last Name and Address

        var lastName = document.getElementById("lastName").value;

        var address = document.getElementById("address").value;

        if (lastName == "" || address == "") {

            alert("Last Name and Address cannot be empty.");

            return false;

        }


        // If all validations pass

        alert("Registration successful!");

        return true;

    }

  </script>

</head>
```

```html
<body>

    <h2>Registration Form</h2>
    <form onsubmit="return validateForm()">
        <label for="firstName">First Name:</label><br>
        <input type="text" id="firstName" name="firstName"><br><br>


        <label for="lastName">Last Name:</label><br>
        <input type="text" id="lastName" name="lastName"><br><br>


        <label for="password">Password:</label><br>
        <input type="password" id="password" name="password"><br><br>


        <label for="email">Email:</label><br>
        <input type="email" id="email" name="email"><br><br>


        <label for="mobile">Mobile Number:</label><br>
        <input type="text" id="mobile" name="mobile"><br><br>


        <label for="address">Address:</label><br>
        <textarea id="address" name="address"></textarea><br><br>


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

</body>
</html>
```
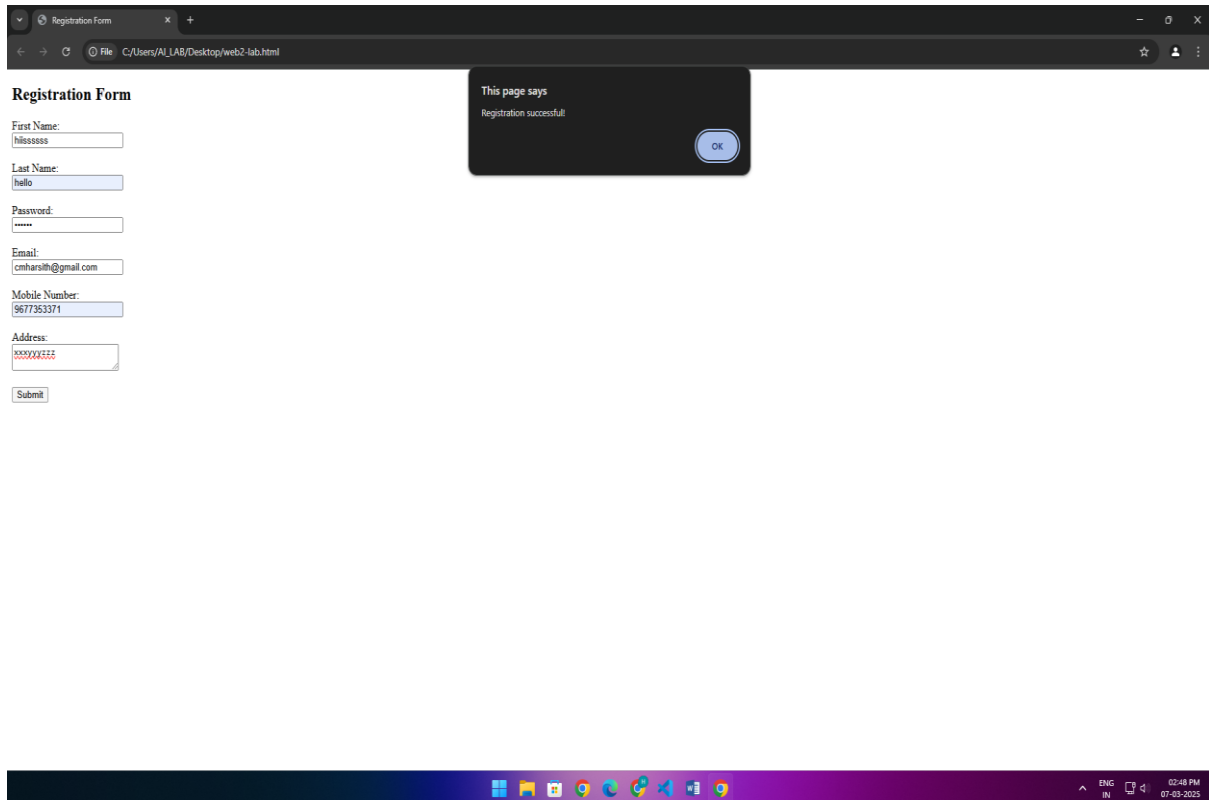
OUTPUT:

RESULT:

The form validation successfully checks the user's input for each field:

1. The **First Name** must contain only alphabets and be at least 6 characters long.
2. The **Password** must be at least 6 characters long.
3. The **E-mail** must follow the valid format of name@domain.com.
4. The **Mobile Number** must be exactly 10 digits.
5. The **Last Name** and **Address** cannot be left empty.

If any field fails validation, an alert message will notify the user, and the form will not be submitted. If all fields are valid, the form is submitted successfully.