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 an HTML Form

- Add input fields for **First Name, Last Name, Password, Email, Mobile Number, and Address**.

- Include a submit button.

Step 2: Style with CSS (Optional)

- Use CSS to enhance the form's appearance.

Step 3: Add JavaScript for Validation

- Attach a submit event listener to the form.

- Get input values using document.getElementById().value.

Step 4: Validate Fields

- **First Name**: Only alphabets, at least 6 characters (/^[A-Za-z]{6,}$/).

- **Last Name & Address**: Must not be empty.

- **Password**: At least 6 characters.

- **Email**: Follow name@domain.com format (/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/).

- **Mobile Number**: Exactly 10 digits ($/^\d\{10\}$/$).

Step 5: Prevent Submission if Invalid

- Show alert() messages for errors.
- Use event.preventDefault() to stop form submission.

Step 6: Test the Form

- Try different inputs and check validation.

PROGRAM:

```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: Arial, sans-serif;
          background-color: #f4f4f4;
          display: flex;
          justify-content: center;
          align-items: center;
          height: 100vh;
      }
      .container {
          background: white;
          padding: 20px;
          border-radius: 8px;
          box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
          width: 300px;
      }
      input, textarea, button {
```

```html
            width: 100%;

            padding: 10px;

            margin: 10px 0;

            border: 1px solid #ccc;

            border-radius: 5px;

        }

        button {

            background: blue;

            color: white;

            font-size: 16px;

            cursor: pointer;

        }

    </style>

</head>

<body>

    <div class="container">

        <h2>Registration Form</h2>

        <form id="registrationForm">

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

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

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

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

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

            <textarea id="address" placeholder="Address"></textarea>

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

        </form>

    </div>


    <script>
```
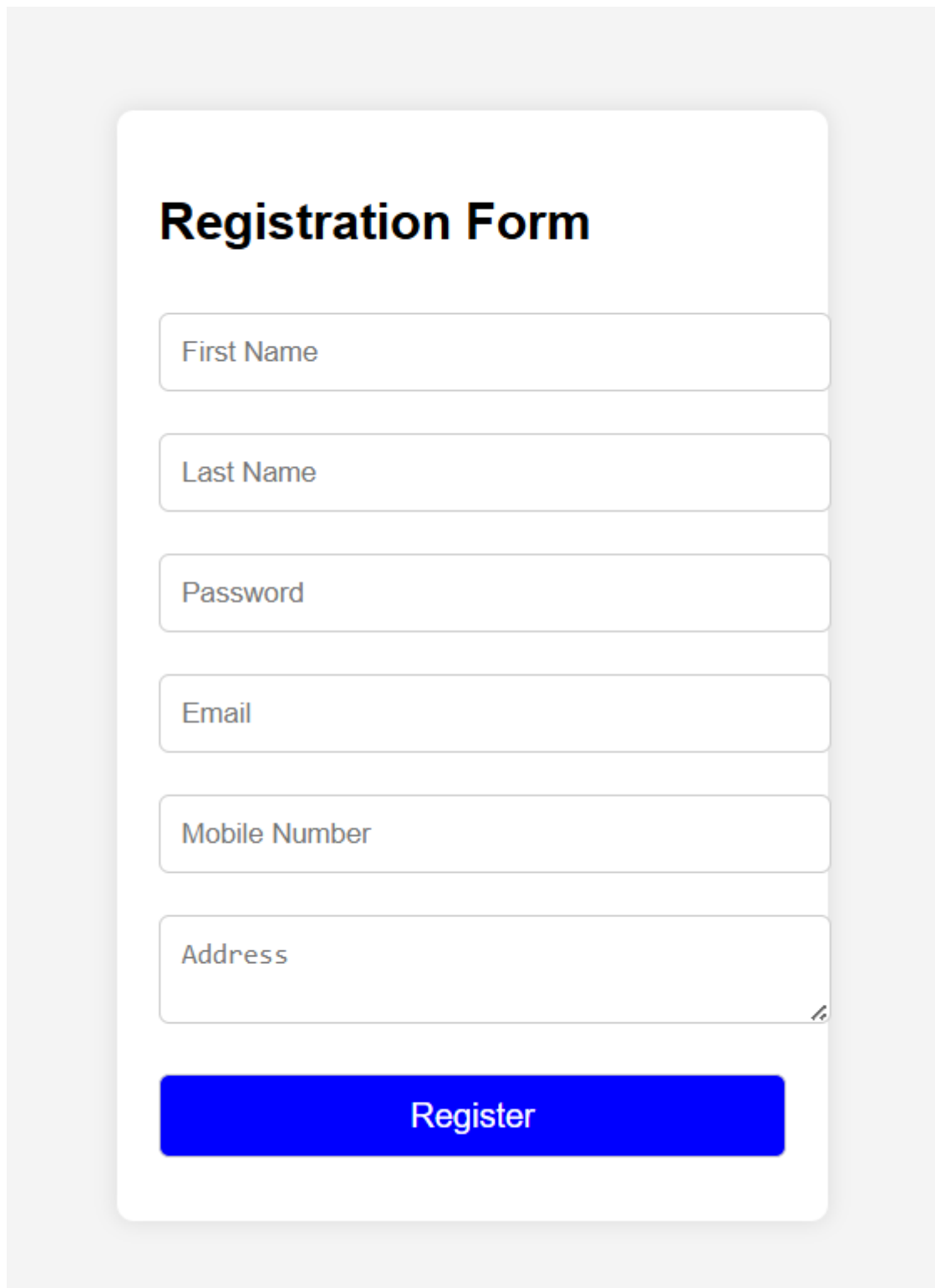
```javascript
document.getElementById("registrationForm").addEventListener("submit",
function(event) {

        let isValid = true;


        // Get field values
        let firstName = document.getElementById("firstName").value.trim();

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

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

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

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

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


        // First Name Validation
        if (!/^[A-Za-z]{6,}$/.test(firstName)) {

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

            isValid = false;

        }


        // Password Validation
        if (password.length < 6) {

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

            isValid = false;

        }


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

        if (!emailPattern.test(email)) {

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

            isValid = false;
```

```javascript
        }

        // Mobile Number Validation
        if (!/^\d{10}$/.test(mobile)) {
            alert("Mobile number must be exactly 10 digits.");
            isValid = false;
        }

        // Last Name and Address Validation
        if (lastName === "" || address === "") {
            alert("Last Name and Address cannot be empty.");
            isValid = false;
        }

        // Prevent form submission if validation fails
        if (!isValid) {
            event.preventDefault();
        }
    });
    </script>
</body>
</html>
```

OUTPUT:

Registration Form

First Name

Last Name

Password

Email

Mobile Number

Address

Register

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