

EXP.NO: 2	
DATE: 06/02/2025	Write JavaScript Programme to validate the following fields of the HTML Registration page.

AIM:

To write JavaScript code to validate user input in a registration form. The validation will ensure that the data entered by the user meets specific criteria for each field. This will help in maintaining data integrity and prevent invalid submissions.

ALGORITHM:

1. Input:

- The user fills in the following fields: **First Name, Password, E-mail, Mobile Number, Last Name, and Address.**

2. Validation Steps:

1. Validate First Name:

- Check if the first name contains **only alphabets.**
- Ensure the length of the **First Name is at least 6 characters.**
- If any of these conditions fail, display an error message indicating the required input.

2. Validate Password:

- Check if the password is **at least 6 characters long.**
- If it is less than 6 characters, display an error message.

3. Validate E-mail:

- Use a **regular expression** to check if the email follows the standard pattern: name@domain.com.
- Ensure that the email contains **no invalid characters** and matches the required pattern.
- If it doesn't match, display an error message indicating an invalid email format.

4. Validate Mobile Number:

- Check if the mobile number contains **exactly 10 digits**.
- Ensure there are **no alphabets or special characters**.
- If the number is invalid, display an error message indicating the correct format.

5. Validate Last Name:

- Ensure the **Last Name** field is **not empty**.
- If it is empty, display an error message.

6. Validate Address:

- Ensure the **Address** field is **not empty**.
- If it is empty, display an error message.

Program :

Login.html :

```
<!DOCTYPE html>

<html>
<head>
<title>Login Page</title>

<style>
body {
    font-family: Arial;
    background: linear-gradient(135deg, #43cea2, #185a9d);
    display: flex;
    justify-content: center;
```

```
    align-items: center;  
    height: 100vh;  
}
```

```
.box {  
    background: white;  
    padding: 25px;  
    width: 350px;  
    border-radius: 10px;  
    box-shadow: 0 15px 30px rgba(0,0,0,0.3);  
}
```

```
h2 {  
    text-align: center;  
    margin-bottom: 15px;  
}
```

```
input, textarea {  
    width: 90%;  
    padding: 8px;  
    margin: 6px 0;  
}
```

```
button {
```

```
width: 100%;  
padding: 10px;  
background: #185a9d;  
color: white;  
border: none;  
cursor: pointer;  
margin-top: 10px;  
}  
</style>
```

```
<script>
```

```
function validateForm() {  
  
    var fname = document.getElementById("fname").value;  
    var lname = document.getElementById("lname").value;  
    var password = document.getElementById("password").value;  
    var email = document.getElementById("email").value;  
    var mobile = document.getElementById("mobile").value;  
    var address = document.getElementById("address").value;  
  
    var namePattern = /^[A-Za-z]+$/;  
    var emailPattern = /^[^s@]+\@[^\s@]+\.[^\s@]+$/;  
  
    // First Name
```

```
if (!namePattern.test(fname) || fname.length < 6) {  
    alert("First Name must contain only alphabets and minimum 6  
characters");  
    return false;  
}  
  
  
// Password  
  
if (password.length < 6) {  
    alert("Password must be at least 6 characters");  
    return false;  
}  
  
  
// Email  
  
if (!emailPattern.test(email)) {  
    alert("Invalid Email format");  
    return false;  
}  
  
  
// Mobile Number  
  
if (mobile.length != 10 || isNaN(mobile)) {  
    alert("Mobile number must contain exactly 10 digits");  
    return false;  
}  
  
  
// Last Name
```

```
if (lname === "") {  
    alert("Last Name should not be empty");  
    return false;  
}  
  
// Address  
  
if (address === "") {  
    alert("Address should not be empty");  
    return false;  
}  
  
// If all validations pass  
window.location.href = "about.html";  
return false;  
}  
</script>  
</head>  
  
<body>  
  
<div class="box">  
    <h2>Login page</h2>  
  
<form onsubmit="return validateForm()">
```

```
<input type="text" id="fname" placeholder="First Name">
<input type="text" id="lname" placeholder="Last Name">
<input type="password" id="password" placeholder="Password">
<input type="text" id="email" placeholder="Email">
<input type="text" id="mobile" placeholder="Mobile Number">
<textarea id="address" placeholder="Address"></textarea>

<button type="submit">Submit</button>
</form>
</div>

</body>
</html>
```

Output:

A screenshot of a web browser displaying a login form titled "Login page". The form consists of six input fields and a submit button. The fields are arranged vertically:

- MISHAL
- S
-
- mishal.s.2024.aiml@rajalakshmi.edu.in
- 0241501110
- chennai

The "chennai" field contains the word "chennai" in red, indicating an error or validation failure. The "Submit" button is located at the bottom right of the form.

RESULT:

HTML page with Form is created and is validated using Javascript