

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

### **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:**

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

#### 5. **Validate Last Name:**

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

#### 6. **Validate Address:**

- o Ensure the **Address** field is **not empty**.
- o 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>

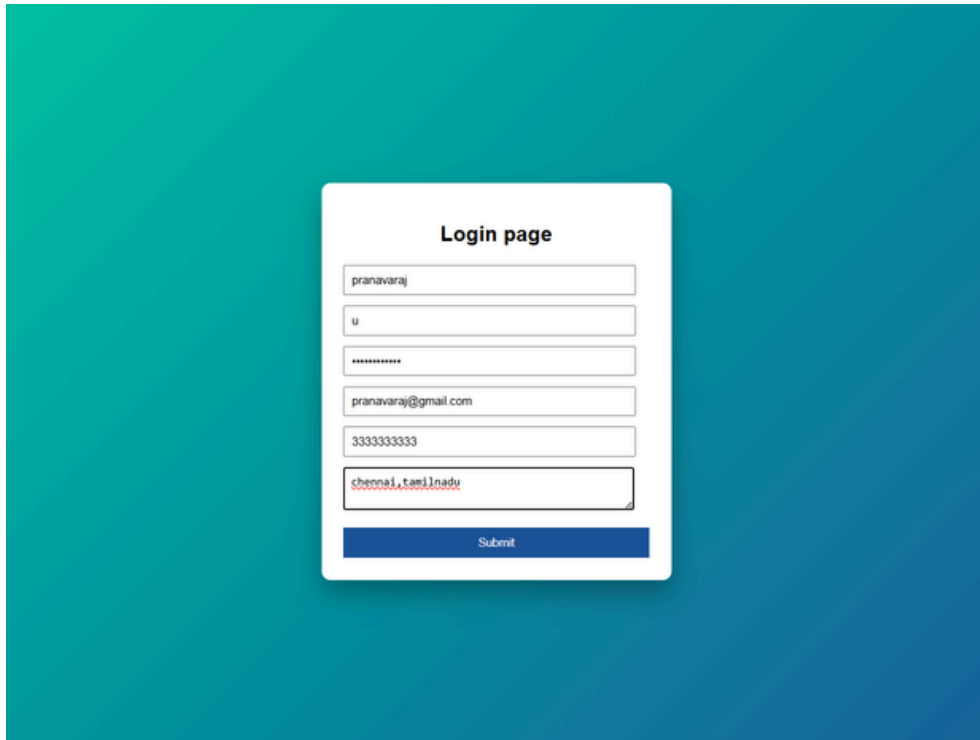
</form>

</div>

</body>

</html>
```

## Output:



**Login page**

pranavaraj

u

\*\*\*\*\*

pranavaraj@gmail.com

3333333333

chennai, tamilnadu

Submit

## RESULT:

HTML pagewith Form is created and is validated using Javascript