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

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 fillsin the following fields: **First Name**, **Password**, **E-mail**, **Mobile Number**, **Last Name**,and **Address**.

2. Validation Steps:

1. **Validate First Name:**

   o Check if the first name contains **only alphabets**.

   o Ensure the length of the **First Name** is **at least 6 characters**.

   o If any of these conditions fail, display an error message indicating the required input.

2. **Validate Password:**

   o Check if thepassword is **at least 6 characters long**.

   o If it is lessthan 6 characters, display an error message.

3. **Validate E-mail:**

   o Use a **regular expression** to check if the email follows the standard pattern: name@domain.com.

   o Ensure that the email contains **no invalid characters** and matches the required pattern.

   o If it doesn't match, display an error message indicating an invalid email format.

4. **Validate Mobile Number:**

   o Check if themobilenumber contains **exactly 10 digits**.

   o Ensure thereare**no alphabets or special characters**.

   o If the numberisinvalid, display an error message indicating the correct format.

5. **Validate Last Name:**

   o Ensure the **Last Name** field is **notempty**.

   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;
```

```css
    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 {
```

```css
        width: 100%;

        padding: 10px;

        background: #185a9d;

        color: white;

        border: none;

        cursor: pointer;

        margin-top: 10px;

    }
</style>
```
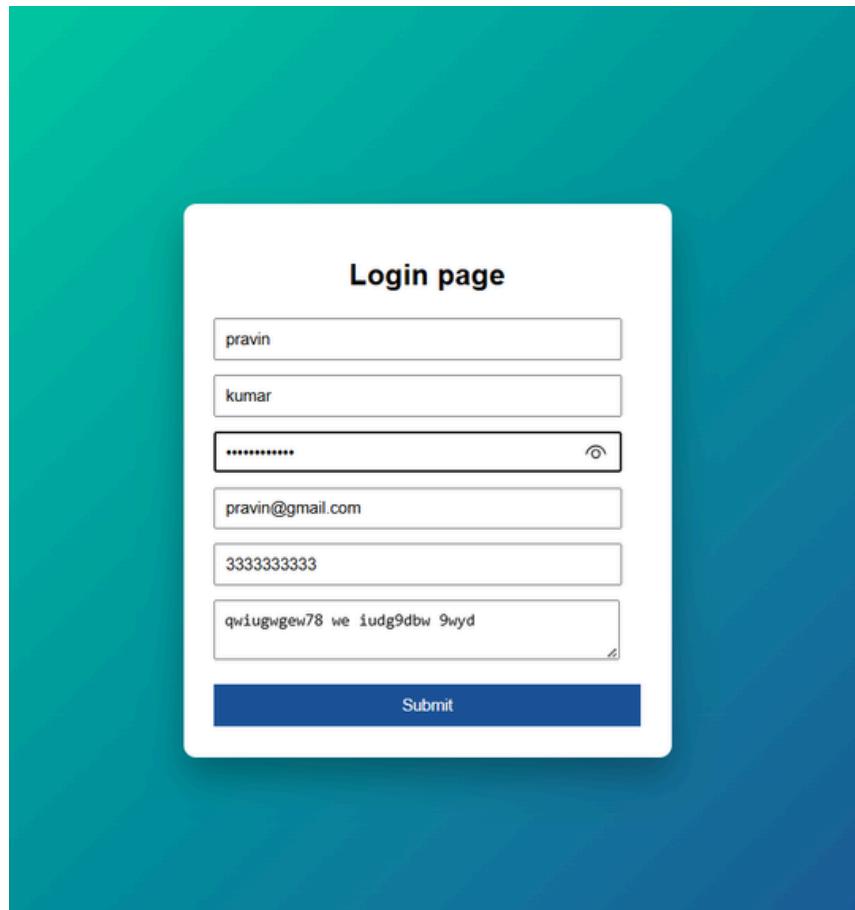
```html
<script>
    function validateForm() {


        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
```

```javascript
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()">
```

```html
<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:

RESULT:

HTML pagewith Form is created and is validated using Javascript