

**EXP.NO: 2**

**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.

### Output:

The screenshot shows a registration form titled "Registration Form". The form fields are as follows:
 

- First Name: KarthikSah
- Last Name: E
- Password: [redacted]
- Email: karthik123@gmail.com
- Mobile Number: 9876543210
- Address: No. 3 ABC road, kpm.

 A modal dialog box is displayed with the message "This page says" followed by "Form Submitted Successfully" and an "OK" button.

### HTML Code (form.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 src="script.js" defer></script>
  </head>
  <body>
```

```
<h1>Registration Form</h1>

<form onsubmit="return validateform()">

    <label>First Name:</label><br>
    <input type="text" id="fname"><br><br>

    <label>Last Name:</label><br>
    <input type="text" id="lname"><br><br>

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

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

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

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

    <input type="submit" value="Register">

</form>

</body>

</html>
```

### **JavaScript Code (script.js) :**

```
function validateform() {  
    let fname=document.getElementById("fname").value;  
    let lname=document.getElementById("lname").value;  
    let password=document.getElementById("password").value;  
    let email=document.getElementById("email").value;  
    let mobile=document.getElementById("mobile").value;  
    let address=document.getElementById("address").value;  
  
    let namepattern=/^[a-zA-Z]+$/;  
    let emailpattern=/^[_a-zA-Z0-9.-%]+@[a-zA-Z0-9-.]+\.[a-z]{2,}$/;  
    let mobilepattern=/^[\d]{10}$/;  
  
    if (!namepattern.test(fname) || fname.length < 6) {  
        alert("First Name must contain only alphabets and at least 6 characters long");  
        return false;  
    }  
  
    if(!emailpattern.test(email)) {  
        alert("Please Enter a valid E-Mail ID");  
        return false;  
    }  
  
    if(!mobilepattern.test(mobile)) {  
        alert("Mobile Number must contain exactly 10 digits");  
        return false;  
    }  
}
```

```
if (password.length < 6) {  
    alert("Password must be at least 6 characters long");  
    return false;  
}  
  
if(lname===""){  
    alert("Last Name cannot be empty");  
    return false;  
}  
  
if (address===""){  
    alert("Address cannot be empty");  
    return false;  
}  
  
alert("Form Submitted Successfully");  
return true;  
}
```

## **RESULT:**

Thus the HTML page with Form was created and validated using Javascript