

NIELIT Gorakhpur

COURSE NAME: O level

SUBJECT: WEB DESIGNING AND PUBLISHING

TOPIC: JavaScript

DATE: 1/06/2020

Validation in Forms cont'd

Let us design a candidate enquiry form for NIELIT through which a candidate may submit an inquiry for the course/information he/she desires so.

The candidate has to submit the following field's information and all of these field's are mandatory. Some of the fields have validations at field level also. The fields and validations are

Filed Name	Validation
Name	Can not be null or empty.
Address	Can not be null or empty.
Pin code	Can not be null or empty and Must be a 6 digit number.
E-mail	Can not be null or empty and must be a valid email address. <u>Valid email address:</u> An email address must contain at a '@' sign and a dot (.). Also, the '@' should not be the first character of the email address, and the last dot must at least be one character after the '@' sign.
Mobile No	Can not be null or empty and Must be a 10 digit number.
Course Name	Can not be null or empty.
Query	Can not be null or empty.

The form validation checks if the field is empty or not meeting the validation criteria, then it raises an alert.

Example code

```
<html>
<head>
<h1 style="text-align: center;"> NIELIT course enquiry form </h1>
<script>
```

```

function validate()
{
    var name = document.forms["enqForm"]["Name"];
    var email = document.forms["enqForm"]["EMail"];
    var mobile = document.forms["enqForm"]["Mobile"];
    var course= document.forms["enqForm"]["Course"];
    var address = document.forms["enqForm"]["Address"];
    var pin = document.forms["enqForm"]["Pin"];
        var query = document.forms["enqForm"]["Query"];

    if (name.value == "")
    {
        window.alert("Enter Your Name");
        name.focus();
        return false;
    }

    if (address.value == "")
    {
        window.alert("Enter your address.");
        address.focus();
        return false;
    }

    if( pin.value == "" || isNaN( pin.value ) || pin.value.length != 6 ) {
        window.alert( "Pin code must be of 6 digits only" );
        pin.focus() ;
        return false;
    }

        var emailID = document.enqForm.EMail.value;
        var atpos = emailID.indexOf("@");
        var dotpos = emailID.lastIndexOf(".");

    if (email.value == "" || atpos < 1 || ( dotpos - atpos < 2 ))
    {
        window.alert("Enter valid e-mail address.");
        email.focus();
        return false;
    }

    if( mobile.value == "" || isNaN( mobile.value ) || mobile.value.length != 10 )
    {
        window.alert("Enter Mobile number(10 digits)");
        mobile.focus();
        return false;
    }
}

```

```

        if (course.value == "")
        {
            window.alert("enter course name");
            course.focus();
            return false;
        }
        if (query.value == "")
        {
            window.alert("enter your query");
            query.focus();
            return false;
        }
        return true;
    }</script>

</head>

<body>

<form name="enqForm" action="submit.php" onsubmit="return validate()" method="post">

    <p>Name: <input type="text" size=50 name="Name"> </p><br>
    <p> Address: <input type="text" size=100 name="Address"> </p><br>
    <p> Pin Code: <input type="text" size= 30 name="Pin"> </p><br>
    <p>E-mail : <input type="text" size=100 name="EMail"> </p><br>
    <p>Mobile Number: <input type="text" size=30 name="Mobile"> </p><br>
    <p>Course Name: <input type="text" size=50 name="Course"> </p><br>

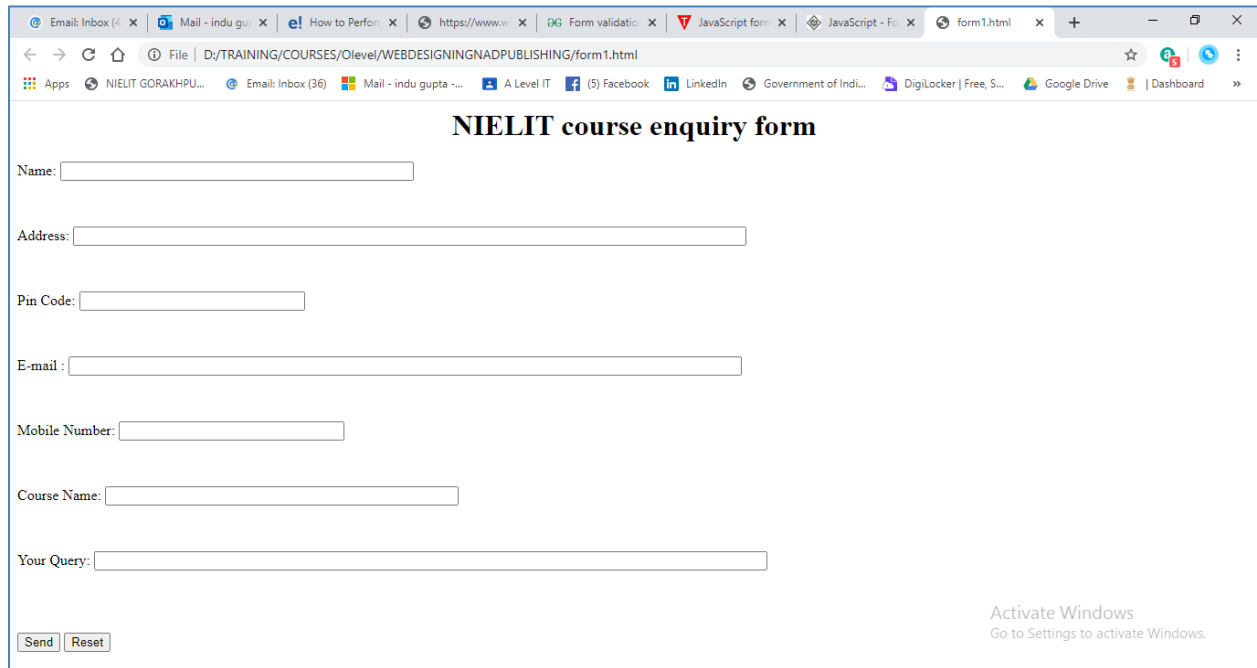
    <p>Your Query: <input type="text" size=100 name="Query"> </p> <br> <br>
    <p><input type="submit" value="Send" name="Submit">
        <input type="reset" value="Reset" name="Reset">
    </p>
</form>
</body>
</html>

```

In this code,

- **var emailID = document.enqForm.EMail.value;** line creates variable emailID which has equal value of email value.
- **var atpos = emailID.indexOf("@");** which contain in-built function called indexOf() which will search @ and check if mail contains @ sign.
- **var dotpos = emailID.lastIndexOf(".");** which contain in built function called lastIndexOf() which will search for dot at end of email id like .com.

- When we run the code, the following webpage will be displayed:

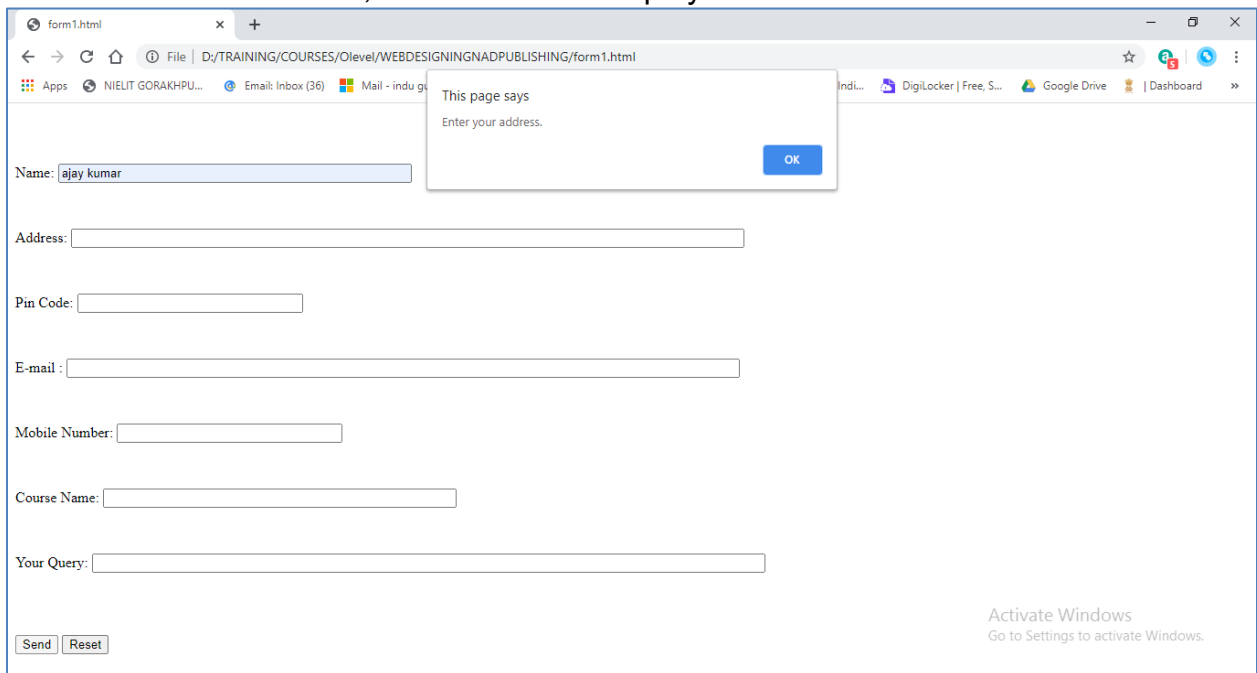


The screenshot shows a web browser window with the title "NIELIT course enquiry form". The form contains the following fields:

- Name:
- Address:
- Pin Code:
- E-mail :
- Mobile Number:
- Course Name:
- Your Query:

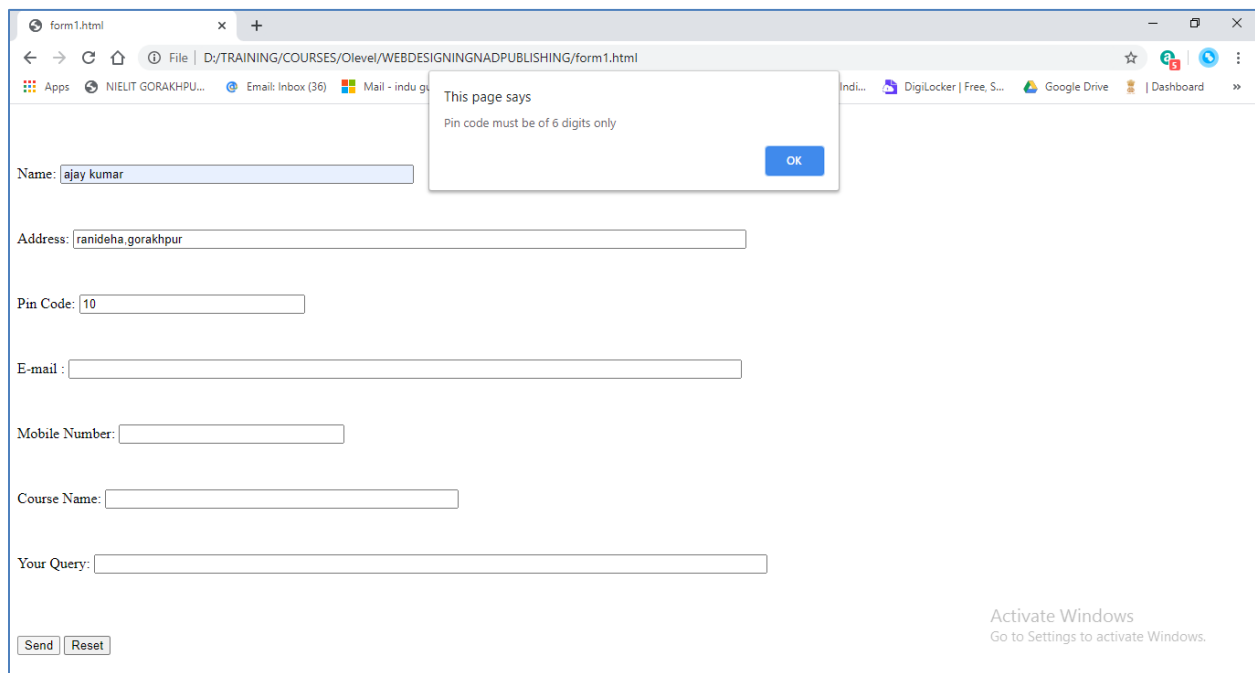
At the bottom left, there are two buttons: "Send" and "Reset". At the bottom right, there is a message: "Activate Windows Go to Settings to activate Windows."

- If we don't enter address, the alert will be displayed.



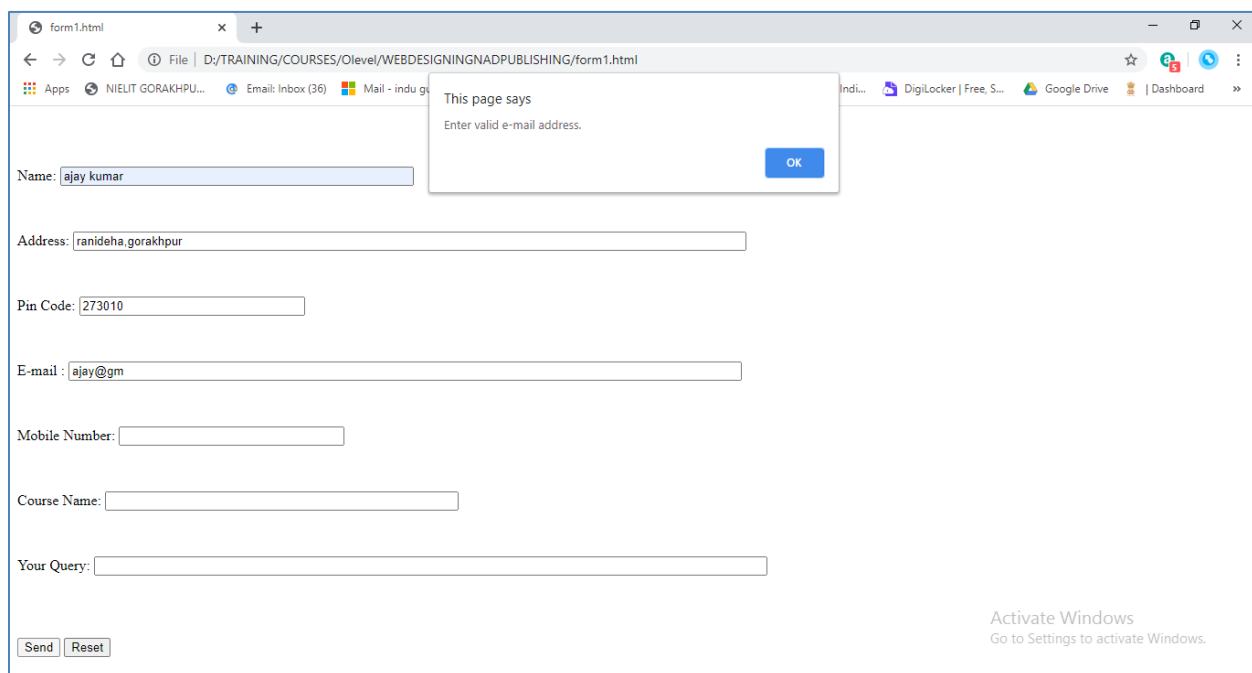
The screenshot shows the same web browser window as before, but with an alert dialog box displayed in the center. The dialog box has the title "This page says" and the message "Enter your address." with an "OK" button. The "Name" field is filled with "ajay kumar". The "Address" field is empty. The "Pin Code" field is empty. The "E-mail" field is empty. The "Mobile Number" field is empty. The "Course Name" field is empty. The "Your Query" field is empty. The "Send" and "Reset" buttons are at the bottom left. The "Activate Windows" message is at the bottom right.

- If we enter no pincode or less than 6 digits, the alert will be displayed.



The screenshot shows a web browser window with a form titled "form1.html". The form contains the following fields: Name (filled with "ajay kumar"), Address (filled with "ranideha.gorakhpur"), Pin Code (filled with "10"), E-mail (empty), Mobile Number (empty), Course Name (empty), and Your Query (empty). At the bottom are "Send" and "Reset" buttons. An alert box is displayed over the form, stating "This page says" and "Pin code must be of 6 digits only", with an "OK" button. The browser's address bar shows the file path "D:\TRAINING\COURSES\Olevel\WEBDESIGNINGNADPUBLISHING\form1.html".

- If we enter incorrect email address format, not having @ and . at proper positions. The alert will be displayed.



The screenshot shows the same web form as above, but with the Pin Code field filled with "273010" and the E-mail field filled with "ajay@gm". An alert box is displayed, stating "This page says" and "Enter valid e-mail address.", with an "OK" button. The browser's address bar shows the same file path. The "Send" and "Reset" buttons are at the bottom left, and an "Activate Windows" watermark is at the bottom right.

- If we enter no mobile no or less than 10 digits, the alert will be displayed.

The screenshot shows a web browser window displaying a form titled 'form1.html'. The form contains several input fields: Name (filled with 'ajay kumar'), Address (filled with 'ranideha.gorakhpur'), Pin Code (filled with '273010'), E-mail (filled with 'ajay@gmail.com'), Mobile Number (filled with '987'), Course Name (empty), and Your Query (empty). At the bottom of the form are 'Send' and 'Reset' buttons. A JavaScript alert box is displayed over the form, stating 'This page says' and 'Enter Mobile number(10 digits)', with an 'OK' button. The browser's address bar shows the file path 'D:\TRAINING\COURSES\Olevel\WEBDESIGNINGNADPUBLISHING\form1.html'. An 'Activate Windows' watermark is visible in the bottom right corner.

- Even if, we skip the query part, even then the alert will be displayed.

The screenshot shows the same web form as above, but with the 'Mobile Number' field filled with '9877656788' and the 'Course Name' field filled with 'a level'. The 'Your Query' field remains empty. The same JavaScript alert box is displayed, stating 'This page says' and 'enter your query', with an 'OK' button. The browser's address bar and 'Activate Windows' watermark are also present.

Assignment

1. How we can check the numeric validations and length of value in form validations? Explain with examples.

2. Design a form with multiple validation.