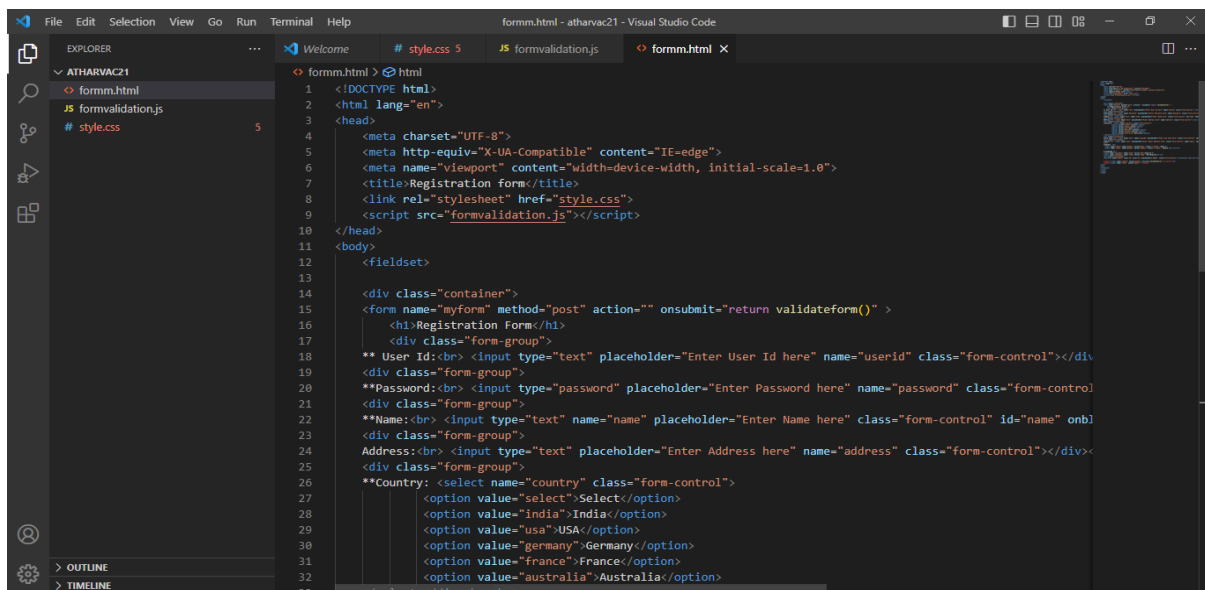


# Practical No. 5

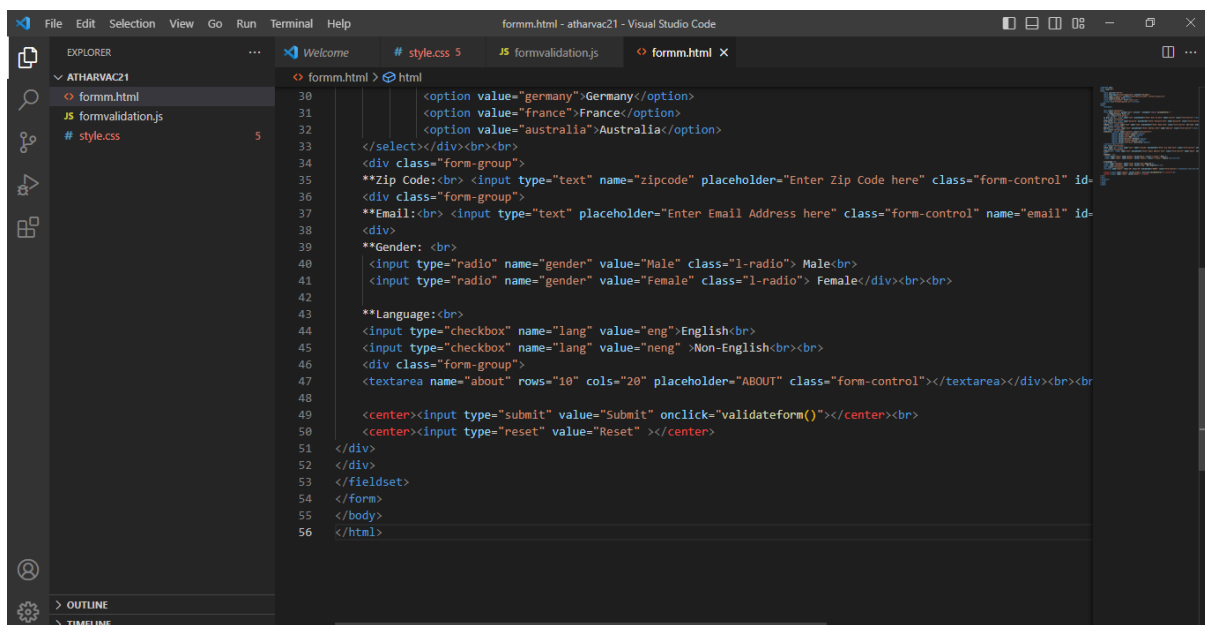
**Aim:** Design a simple registration form by applying proper validation for the following fields using JavaScript.

**Code:**

**HTML Code:**

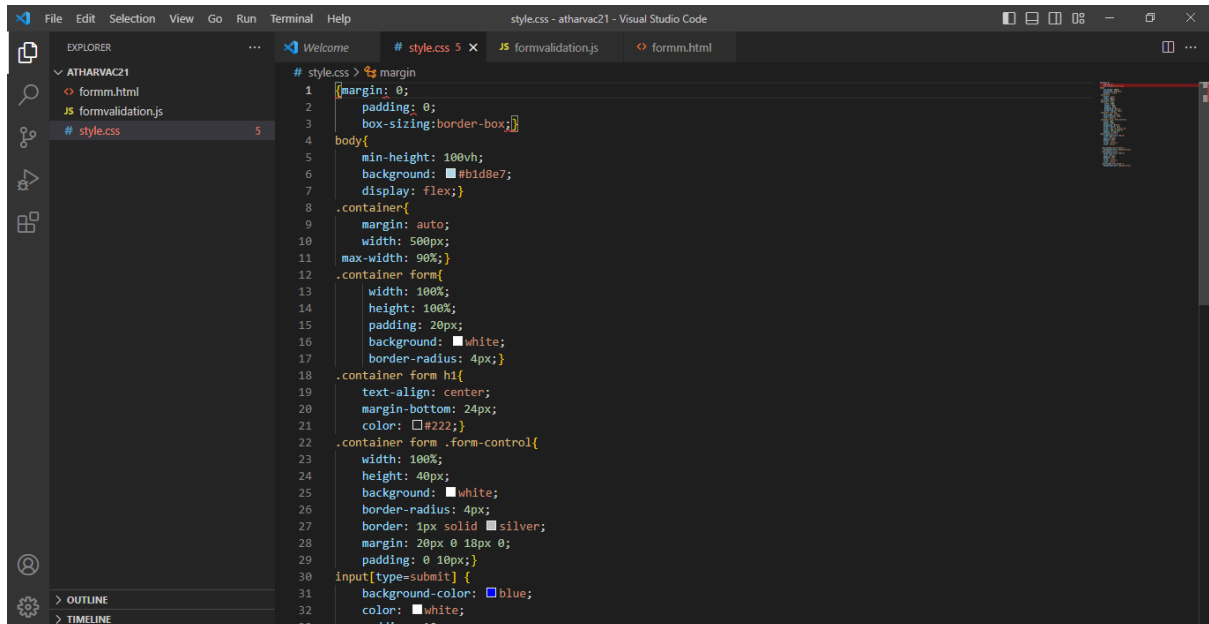


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Registration form</title>
8   <link rel="stylesheet" href="style.css">
9   <script src="formvalidation.js"></script>
10 </head>
11 <body>
12   <fieldset>
13
14     <div class="container">
15       <form name="myform" method="post" action="" onsubmit="return validateform()" >
16         <h1>Registration Form</h1>
17         <div class="form-group">
18           ** User Id:<br> <input type="text" placeholder="Enter User Id here" name="userid" class="form-control"></div>
19         <div class="form-group">
20           **Password:<br> <input type="password" placeholder="Enter Password here" name="password" class="form-control"></div>
21         <div class="form-group">
22           **Name:<br> <input type="text" name="name" placeholder="Enter Name here" class="form-control" id="name" onbl
23         <div class="form-group">
24           Address:<br> <input type="text" placeholder="Enter Address here" name="address" class="form-control"></div>
25         <div class="form-group">
26           **Country: <select name="country" class="form-control">
27             <option value="select">Select</option>
28             <option value="india">India</option>
29             <option value="usa">USA</option>
30             <option value="germany">Germany</option>
31             <option value="france">France</option>
32             <option value="australia">Australia</option>
33           </select></div><br><br>
```



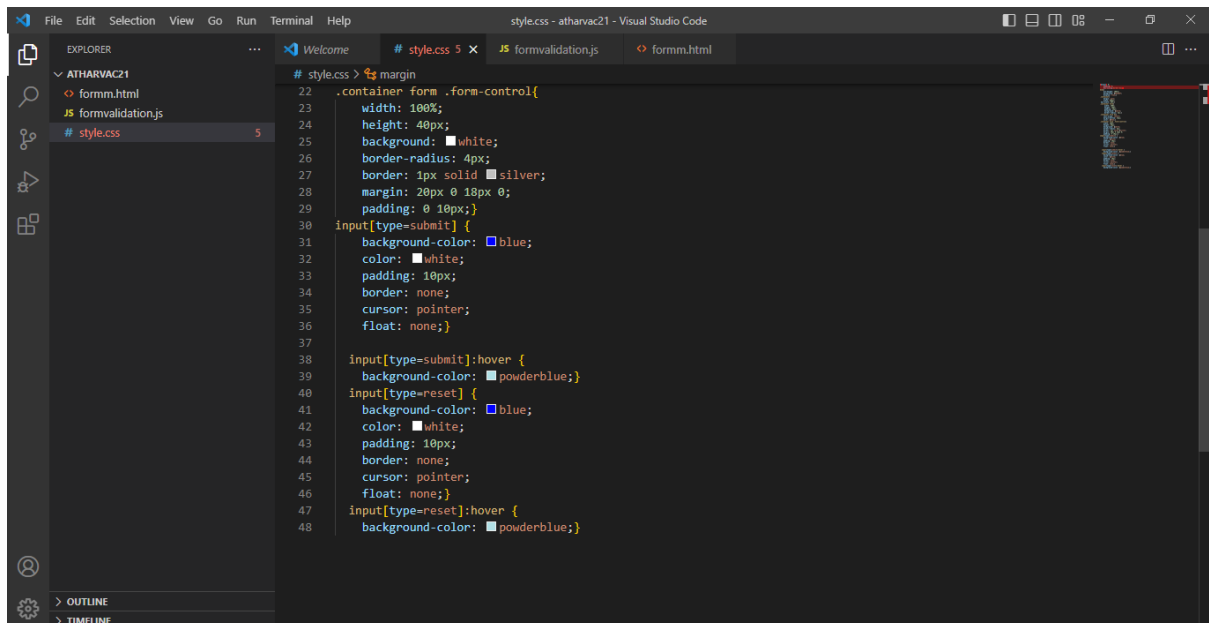
```
30             <option value="germany">Germany</option>
31             <option value="france">France</option>
32             <option value="australia">Australia</option>
33           </select></div><br><br>
34         <div class="form-group">
35           **Zip Code:<br> <input type="text" name="zipcode" placeholder="Enter Zip Code here" class="form-control" id=
36         <div class="form-group">
37           **Email:<br> <input type="text" placeholder="Enter Email Address here" class="form-control" name="email" id=
38         <div>
39           **Gender: <br>
40           <input type="radio" name="gender" value="Male" class="1-radio"> Male<br>
41           <input type="radio" name="gender" value="Female" class="1-radio"> Female</div><br><br>
42           **Language: <br>
43           <input type="checkbox" name="lang" value="eng">English<br>
44           <input type="checkbox" name="lang" value="neng">Non-English<br><br>
45         <div class="form-group">
46           <textarea name="about" rows="10" cols="20" placeholder="ABOUT" class="form-control"></textarea></div><br><br>
47         <center><input type="submit" value="Submit" onclick="validateform()"></center><br>
48         <center><input type="reset" value="Reset" ></center>
49       </div>
50     </div>
51   </fieldset>
52 </body>
53 </html>
```

## CSS Code:



A screenshot of the Visual Studio Code editor showing a CSS file named 'style.css'. The Explorer sidebar on the left shows a project named 'ATHARVAC21' with files 'formm.html', 'formvalidation.js', and 'style.css'. The main editor area displays the following CSS code:

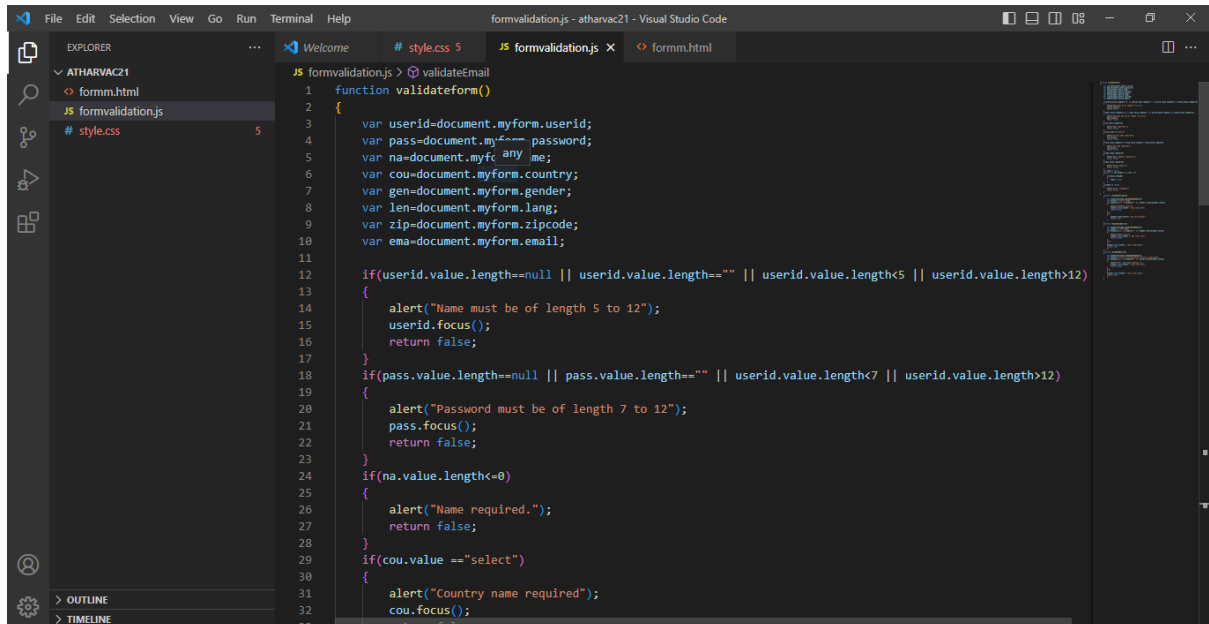
```
# style.css > margin
1  {margin: 0;
2    padding: 0;
3    box-sizing: border-box;}
4  body{
5    min-height: 100vh;
6    background: #b1d8e7;
7    display: flex;}
8  .container{
9    margin: auto;
10   width: 500px;
11   max-width: 90%;
12   .container form{
13     width: 100%;
14     height: 100%;
15     padding: 20px;
16     background: white;
17     border-radius: 4px;}
18   .container form h1{
19     text-align: center;
20     margin-bottom: 24px;
21     color: #222;}
22   .container form .form-control{
23     width: 100%;
24     height: 40px;
25     background: white;
26     border-radius: 4px;
27     border: 1px solid silver;
28     margin: 20px 0 18px 0;
29     padding: 0 10px;}
30   input[type=submit] {
31     background-color: blue;
32     color: white;
33     padding: 10px;
```



A continuation of the Visual Studio Code editor showing the same 'style.css' file. The code continues from line 33:

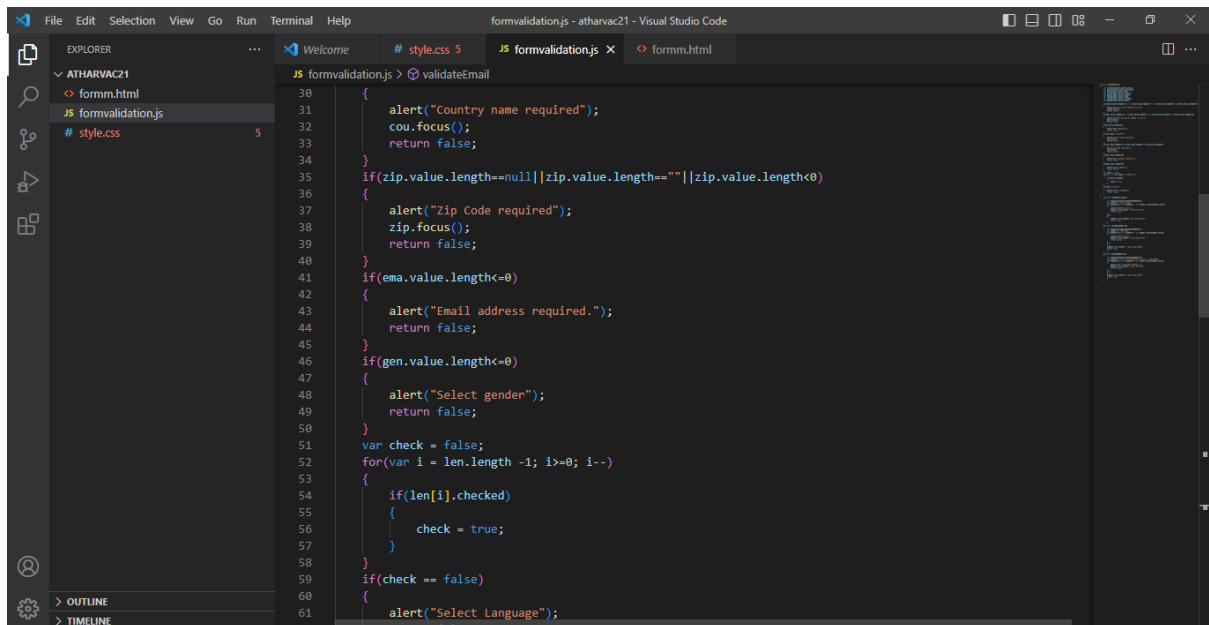
```
padding: 10px;
34   }
35   input[type=submit]:hover {
36     background-color: powderblue;}
37   input[type=reset] {
38     background-color: blue;
39     color: white;
40     padding: 10px;
41     border: none;
42     cursor: pointer;
43     float: none;}
44   input[type=reset]:hover {
45     background-color: powderblue;}
```

# Javascript Code:



This screenshot shows the first part of the JavaScript code in the 'formvalidation.js' file. The Explorer sidebar on the left shows the project structure with 'formm.html', 'formvalidation.js', and 'style.css'. The main editor displays the following code:

```
1 function validateEmail()
2 {
3     var userid=document.myform.userid;
4     var pass=document.myform.password;
5     var na=document.myform.name;
6     var cou=document.myform.country;
7     var gen=document.myform.gender;
8     var len=document.myform.lang;
9     var zip=document.myform.zipcode;
10    var ema=document.myform.email;
11
12    if(userid.value.length==null || userid.value.length==" || userid.value.length<5 || userid.value.length>12)
13    {
14        alert("Name must be of length 5 to 12");
15        userid.focus();
16        return false;
17    }
18    if(pass.value.length==null || pass.value.length==" || userid.value.length<7 || userid.value.length>12)
19    {
20        alert("Password must be of length 7 to 12");
21        pass.focus();
22        return false;
23    }
24    if(na.value.length<=0)
25    {
26        alert("Name required.");
27        return false;
28    }
29    if(cou.value == "select")
30    {
31        alert("Country name required");
32        cou.focus();
33        return false;
```



This screenshot shows the second part of the JavaScript code in the 'formvalidation.js' file. The Explorer sidebar on the left shows the project structure with 'formm.html', 'formvalidation.js', and 'style.css'. The main editor displays the following code:

```
30 {
31     alert("Country name required");
32     cou.focus();
33     return false;
34 }
35 if(zip.value.length==null||zip.value.length=="||zip.value.length<0)
36 {
37     alert("Zip Code required");
38     zip.focus();
39     return false;
40 }
41 if(ema.value.length<=0)
42 {
43     alert("Email address required.");
44     return false;
45 }
46 if(gen.value.length<=0)
47 {
48     alert("Select gender");
49     return false;
50 }
51 var check = false;
52 for(var i = len.length -1; i>=0; i--)
53 {
54     if(len[i].checked)
55     {
56         check = true;
57     }
58 }
59 if(check == false)
60 {
61     alert("Select Language");
62     return false;
```

```
File Edit Selection View Go Run Terminal Help
formvalidation.js - atharvac21 - Visual Studio Code

EXPLORER
ATHARVAC21
  formm.html
  formvalidation.js
  style.css

# style.css 5

JS formvalidation.js > validateEmail
59 if(check == false)
60 {
61   alert("Select Language");
62   return false;
63 }
64 }
65 function validateString(id)
66 {
67   var element=document.getElementById(id);
68   var letters= /^[A-Za-z]+$//;
69   if( element==null || element=="" || !letters.test(element.value))
70   {
71     alert("Alphabets only.");
72     element.style.border = "2px solid red";
73     return false;
74   }
75   else
76   {
77     element.style.border= "2px solid green";
78     return true;
79   }
80 }
81 function validatenumber(id)
82 {
83   var element=document.getElementById(id);
84   var numbers = /^[0-9]+$//;
85   if( element==null || element=="" || !numbers.test(element.value))
86   {
87     alert("Numbers only");
88     element.style.border = "2px solid red";
89     return false;
90   }
91 }
```

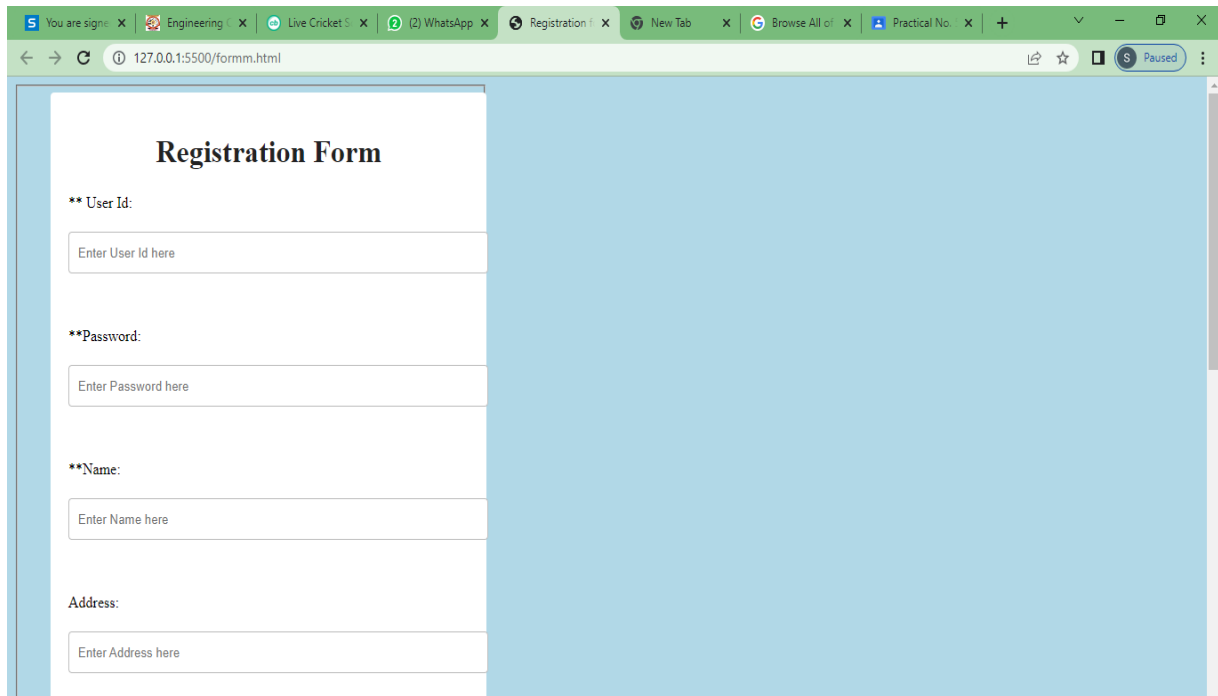
```
File Edit Selection View Go Run Terminal Help
formvalidation.js - atharvac21 - Visual Studio Code

EXPLORER
ATHARVAC21
  formm.html
  formvalidation.js
  style.css

# style.css 5

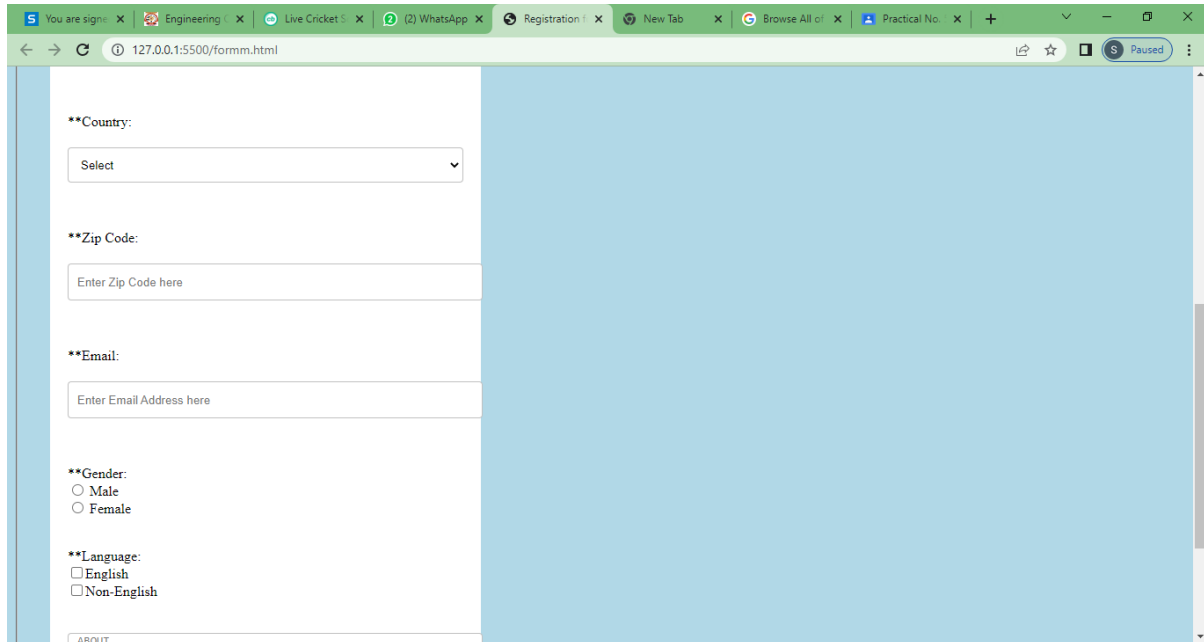
JS formvalidation.js > validateEmail
83   var element=document.getElementById(id);
84   var numbers = /^[0-9]+$//;
85   if( element==null || element=="" || !numbers.test(element.value))
86   {
87     alert("Numbers only");
88     element.style.border = "2px solid red";
89     return false;
90   }
91   else
92   {
93     element.style.border = "2px solid green";
94     return true;
95   }
96 }
97 function validateEmail(id)
98 {
99   var element=document.getElementById(id);
100   var letters= /^[^w+([^-]?w+)@w+([^-]?w+)(\w{2,3})+$/;
101   if( element==null || element=="" || !letters.test(element.value))
102   {
103     alert("Enter valid Email address.");
104     element.style.border = "2px solid red";
105     return false;
106   }
107   else
108   {
109     element.style.border = "2px solid green";
110     return true;
111   }
112 }
```

# Output:



The screenshot shows a web browser window with multiple tabs. The active tab is titled "Registration f" and the address bar shows "127.0.0.1:5500/formm.html". The page displays a "Registration Form" with the following fields:

- \*\* User Id:** A text input field with the placeholder "Enter User Id here".
- \*\*Password:** A text input field with the placeholder "Enter Password here".
- \*\*Name:** A text input field with the placeholder "Enter Name here".
- Address:** A text input field with the placeholder "Enter Address here".



The screenshot shows the same web browser window, but the form has been scrolled down to reveal additional fields:

- \*\*Country:** A dropdown menu with the placeholder "Select".
- \*\*Zip Code:** A text input field with the placeholder "Enter Zip Code here".
- \*\*Email:** A text input field with the placeholder "Enter Email Address here".
- \*\*Gender:** Two radio button options: "Male" and "Female".
- \*\*Language:** Two checkbox options: "English" and "Non-English".

At the bottom of the form, there is a link labeled "ABOUT".

The screenshot shows a web browser window with multiple tabs. The active tab is titled 'Registration f...' and the address bar shows '127.0.0.1:5500/formm.html'. The browser is in 'Paused' state. The web page displays a registration form with the following elements:

- A text input field labeled 'Enter Zip Code here'.
- A label '\*\*Email:' followed by a text input field labeled 'Enter Email Address here'.
- A label '\*\*Gender:' followed by two radio button options: 'Male' and 'Female'.
- A label '\*\*Language:' followed by two checkbox options: 'English' and 'Non-English'.
- A text area labeled 'ABOUT'.
- Two blue buttons at the bottom: 'Submit' and 'Reset'.

**Conclusion:** We can create the form on web page, make convenient buttons and text field and validate the functioning of the button using javascript. We can successfully evaluate the result in alert box as we type in wrong information.