Assignment1: Create a page about yourself.


HTML file
--------------------

```html
<!DOCTYPE html>
<html>
<head>
    <title>My Page</title>
    <link rel="stylesheet" type="text/css" href="style1.css">
</head>
<body>
    <h1>My name</h1>
    <div>
        <img src="pic1.jpeg" alt="My Photo"/>
        <h3> My Hobbies </h3>
        <ul>
            <li> Watching Movies</li>
            <li> Playing Chess</li>
            <li> Listening to Music</li>
        </ul>
    </div>
    <table>
        <tr>
            <th>Examination</th>
            <th>Year Appeared</th>
        </tr>
        <tr>
            <td>BTech</td>
            <td>Current</td>
        </tr>
        <tr>
            <td> Class 12 Board</td>
            <td>2012</td>
        </tr>
        <tr>
            <td> Class 10 Board </td>
            <td>2010</td>
        </tr>
    </table>
</body>
</html>


CSS-file
--------------------

*{
    font-family: sans-serif;
}
body{
    background-color: purple;
    font-weight: bolder;
}

h1{
    text-align: center;
    color:navy;
}
```

```css
61
62  div{
63      overflow: auto;
64  }
65
66  img{
67      width:  10%;
68      height: 50%;
69      border: 10px solid black;
70      margin-right: 10%;
71      float:right;
72  }
73
74  h3{
75      margin-left: 12%;
76      margin-top: 5%;
77      text-decoration: underline;
78  }
79
80  ul{
81      font-style: italic;
82      color:white;
83      margin-left: 10%;
84      margin-right:40%;
85  }
86
87
88  table,th,td{
89      border: 5px solid #EB7F0C;
90      text-align: center;
91      padding: 3%;
92  }
93
94  table{
95      clear:right;
96      margin-top: 10%;
97      border-collapse: collapse;
98      margin-left: auto;
99      margin-right: auto;
100 }
101
102 th{
103     color:#80ff00;
104     font-style: italic;
105 }
106 td{
107     color:#00ffbf;
108 }
109
110
111
112
113
```

```
Assignment 2: use of marquee


index.html
------------

<!DOCTYPE html>
<html>
<head>
    <title>About Me</title>
</head>
<body>
    <marquee>
        <a href="description.html">About Yourself</a>
    </marquee>
</body>
</html>


description.html
-----------------------

<!DOCTYPE html>
<html>
<head>
    <title>Description</title>
</head>
<body>
    <p align="left">
    Hello, Welcome to my Page. I am Himansu Rathi, a Computer Science Major
    in Nit Durgapur, India. I like to do competative coding and learn cutting
    -edge technologies.
    </p>
</body>
</html>
```

```
Assignment3: Demonstrate a simple login form without validation


index.html
----------------

<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
<form align="center">
    <div>
        <strong>First Name:</strong>
        <input type="text" size="20">
    </div>
    <br/>
    <div>
        <strong>Last Name:</strong>
        <input type="text" size="20">
    </div>
    <br/>
    <div>
        <strong>Gender:</strong>
        <input type="radio" name="gender" value="Male" checked="checked">Male
        <input type="radio" name="gender" value="Female">Female
    </div>
    <br/>
    <a href="Welcome.html"><input type="button" name="button" value="Submit"></a>
</form>
</body>
</html>


welcome.html
--------------

<!DOCTYPE html>
<html>
<head>
    <title>Welcome Page</title>
</head>
<body>
<p align="center">
    <h3>This is a sample Welcome Page</h3>
</p>
</body>
</html>
```

```
Assignment 4: Demonstrate use of frames in HTML


index.html
----------------

<!DOCTYPE html>
<html>
<head>
    <title>Using Frames</title>
</head>
<frameset cols="35%,65%">
    <frameset rows="50%,50%">
        <frame src="frame_a.htm" name="frame_a">
        <frame src="frame_b.htm" name="frame_b">
    </frameset>
    <frame src="frame_c.htm" name="frame_c">
    <noframes>
        <body>Your Browser is too old to handle frames! </body>
    </noframes>
</frameset>
</html>

frame_a.html
--------------

<a href="frame_name.htm" target ="frame_c">Name </a>
<br/>
<a href="frame_address.htm" target ="frame_c">Address </a>
<br/>
<a href="frame_subject.htm" target ="frame_c">Favourite Subject </a>
<br/>
<a href="frame_hobbies.htm" target ="frame_c">Hobbies </a>
<br/>

frame_b.html
--------------

frame_c.html
--------------

<!DOCTYPE html>
<html>
<body>
    <p>
        This is the main information page. Content from any link will be
        displayed here.
    </p>
</body>
</html>

frame_name.html
------------------

<!DOCTYPE html>
<html>
    <body>
        <p align="center">
            <strong>My name is [insert name here] </strong>
        </p>
```

```
      </body>
   </html>

frame_addresss.html
----------------

<!DOCTYPE html>
<html>
    <body>
        <p align="center">
            <strong>My address is Room D-314 Hall 5 NIT Durgapur </strong>
        </p>
    </body>
</html>

frame_subject.html
------------------

<!DOCTYPE html>
<html>
    <body>
        <p align="center">
            <strong>My favourite subject is Artificial Intelligence</strong>
        </p>
    </body>
</html>

frame_hobbies.html
-----------------

<!DOCTYPE html>
<html>
    <body>
        <p align="center">
            <strong>My hobby is playing chess </strong>
        </p>
    </body>
</html>
```

```
1    Assignment 5: Demonstrate login form with validation using Javascript
2
3    index.html
4    -------------
5
6    <!DOCTYPE html>
7    <html>
8    <head>
9        <title>Forms</title>
10       <script type="text/javascript" src="scriptValidate.js"></script>
11   </head>
12   <body>
13   <form name="Login" onsubmit="return(validateForm());" action="welcome.html"  ↵
     method="post">
14       <label>Email</label>
15       <input type="text" name="Email" placeholder="email">
16       <br/>
17       <br/>
18       <label>Password</label>
19       <input type="password" name="Password" placeholder="password">
20       <br/>
21       <br/>
22       <input type="submit" value="Signin"/>
23   </form>
24   </body>
25   </html>
26
27   welcome.html
28   -------------
29
30   <!DOCTYPE html>
31   <html>
32       <head>
33           <title>Welcome Page</title>
34       </head>
35       <body>
36           <p align="center">
37               <strong>You have successfully logged in the site</strong>
38           </p>
39       </body>
40   </html>
41
42
43   scriptValidate.js
44   -----------------
45
46   function isEmpty(str){
47       return (!str || 0 === str.length || !str.trim());
48   }
49
50   function validateEmail(){
51       var emailId = document.Login.Email.value;
52       if(isEmpty(emailId)){
53           alert("Email Id cannot be blank");
54           document.Login.Email.focus();
55           return false;
56       }
57       var atPos=emailId.indexOf("@");
58       var dotPos=emailId.lastIndexOf(".");
59       var lastIndex=emailId.length-1;
```

```javascript
        if((atPos<1) || (dotPos-atPos<2) ||(dotPos==lastIndex)||(atPos==lastIndex)){
            alert("Invalid Email Id");
            document.Login.Email.focus();
            return false;
        }

        return true;
    }

    function validatePassword(){
        var password = document.Login.Password.value;
        if(isEmpty(password)){
            alert("Password cannot be blank");
            document.Login.Password.focus();
            return false;
        }
        var lengthPassword=password.length;
        if((lengthPassword<8) || (lengthPassword>12)){
            alert("Password must be between 8-12 characters");
            document.Login.Password.focus();
            return false;
        }
        return true;
    }

    function validateForm(){
        if(validateEmail() && validatePassword()){
            return true;
        }
        else{
            return false;
        }
    }
```

```
Assignment 6: Build a registration form with validation using javascript and        ↵
styles using CSS

index.html
------------

<!DOCTYPE html>
<html>
<head>
    <title>Registration form</title>
    <link rel="stylesheet" type="text/css" href="style.css">
    <script type="text/javascript" src="Validation.js"></script>
    <h1>Registration Form </h1>
</head>
<body>
    <form name="Registration" action="welcome.html" onsubmit=               ↵
    "return(validateForm());" method="post">

    <div class="element" id="userid">
        <label for="userid">UserId:</label>
        <input type="text" name="UserId" required onblur=                   ↵
        "return(validateUserId());"/>
        <span id="userMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="password">
        <label for="password">Password:</label>
        <input type="password" name="Password" required onblur=            ↵
        "return(validatePassword());"/>
        <span id="passwordMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="retypepassword">
        <label for="retypepassword">Retype Password:</label>
        <input type="password" name="RetypePassword" required onblur=       ↵
        "return(checkRetypePassword());" />
        <span id="confirmPasswordMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="fullname">
        <label for="fullname">FullName:</label>
        <input type="text" name="FullName" required onblur=                 ↵
        "return(validateFullName());"/>
        <span id="nameMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="fathername">
        <label for="fathername">Father's Name:</label>
        <input type="text" name="FatherName" onblur="return(validateFatherName());"/>
        <span id="fatherMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="date">
        <label for="dateofbirth">Date of Birth:</label>
        <input type="date" name="DateOfBirth" required onblur=              ↵
        "return(validateDate());"/>
        <span id="dateMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="gender">
```

```html
        <label for="gender">Gender:</label>
        <input type="radio" name="gender" value="Male" checked="checked">Male
        <input type="radio" name="gender" value="Female">Female
    </div>

    <div class="element" id="address">
        <label for="address">Address:</label>
        <textarea rows="10" cols="30"></textarea>
    </div>

    <div class="element" id="country">
        <label for="country">Country:</label>
        <select>
            <option value="India" selected> India </option>
            <option value="SriLanka"> SriLanka</option>
            <option value="Bangladesh"> Bangladesh</option>
            <option value="USA"> USA</option>
            <option value="China">China</option>
            <option value="Russia">Russia</option>
        </select>
    </div>

    <div class="element" id="emailid">
        <label for="emailid">Email Id:</label>
        <input type="email" name="Email" required onkeyup=
        "return(validateEmail());" />
        <span id="emailMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="phonenumber">
        <label for="phonenumber">Phone Number:</label>
        <input type="number" name="PhoneNumber" required onblur=
        "return(validatePhoneNumber());"/>
        <span id="phoneMessage" class="confirmMessage"></span>
    </div>

    <div class="element" id="language">
        <label for="language">Language Known:</label>
        <input type="checkbox" value="English" class="lang"/> English
        <input type="checkbox" value="Hindi" class="lang"/> Hindi
        <input type="checkbox" value="Bengali" class="lang"/> Bengali
        <input type="checkbox" value="Tamil" class="lang"/> Tamil
    </div>

    <div class="element" id="Myself">
        <label for="yourself">About yourself:</label>
        <textarea rows="10" cols="30"></textarea>
    </div>

    <div class="element" id="button">
        <input type="submit" value="Signin" id="signin"/>
    </div>

    </form>
</body>
</html>


welcome.html
-----------------
```

```html
<!DOCTYPE html>
<html>
<head>
    <title>Website Welcome</title>
</head>
<body>
<p align="center">
    <strong>Welcome to our site. You have successfully logged in.</strong>
</p>
</body>
</html>
```

styles.css
---------------

```css
h1{
    position:fixed;
    background-color: orange;
    width:100%;
    text-align:center;
    margin: 0%;
    top:0%;
    left:0%;
}

input#signin:hover{
    background-color: #8d15bb;
}

.element{
    margin-top: 2%;
}

label{
    font-weight: bolder;
    display: inline-block;
    width:20%;
}

#button{
    margin-left: 25%;
}

#userid{
    margin-top: 5%;
}

.confirmMessage{
    color:red;
}
```

validation.js
---------------


```javascript
function isEmpty(str){
```

```
172        return (!str || 0 === str.length || !str.trim());
173    }
174
175    function validateEmail(){
176        var message = document.getElementById('emailMessage');
177        var emailId = document.Registration.Email.value;
178        if(isEmpty(emailId)){
179            message.innerHTML="Email Id cannot be blank";
180            document.Registration.Email.focus();
181            return false;
182        }
183        var atPos=emailId.indexOf("@");
184        var dotPos=emailId.lastIndexOf(".");
185        var lastIndex=emailId.length-1;
186        if((atPos<1) || (dotPos-atPos<2) ||(dotPos==lastIndex)||(atPos==lastIndex)){
187            message.innerHTML="Invalid Email Id";
188            document.Registration.Email.focus();
189            return false;
190        }
191        message.innerHTML="";
192        return true;
193    }
194
195    function validatePassword(){
196        var message = document.getElementById('passwordMessage');
197        var password = document.Registration.Password.value;
198        if(isEmpty(password)){
199            message.innerHTML="Password cannot be blank";
200            document.Registration.Password.focus();
201            return false;
202        }
203        var lengthPassword=password.length;
204        if((lengthPassword<8) || (lengthPassword>12)){
205            message.innerHTML="Password must be between 8-12 characters";
206            document.Registration.Password.focus();
207            return false;
208        }
209        message.innerHTML="";
210        return true;
211    }
212
213    function checkRetypePassword(){
214        var message = document.getElementById('confirmPasswordMessage');
215        var password = document.Registration.Password.value;
216        var retypepassword = document.Registration.RetypePassword.value;
217        if((isEmpty(retypepassword)) ||(password!=retypepassword)){
218            message.innerHTML="Password do not match";
219            document.Registration.RetypePassword.focus();
220            return false;
221        }
222        message.innerHTML="";
223        return true;
224    }
225
226    function validateUserId(){
227        var message = document.getElementById('userMessage');
228        var username=document.Registration.UserId.value;
229        if(isEmpty(username)){
230            message.innerHTML="Username cannot be blank";
231            document.Registration.UserId.focus();
```

```
232          return false;
233      }
234      var re=/^[a-z0-9_-]{3,15}$/;
235      if(username.search(re)==-1){
236          message.innerHTML="Invalid User Id";
237          document.Registration.UserId.focus();
238          return false;
239      }
240      message.innerHTML="";
241      return true;
242  }
243
244  function validateFullName(){
245      var message = document.getElementById('nameMessage');
246      var name=document.Registration.FullName.value;
247      if(isEmpty(name)){
248          message.innerHTML="Name cannot be blank";
249          document.Registration.FullName.focus();
250          return false;
251      }
252      var re=/^[a-zA-z ]{1,40}$/;
253      if(name.search(re)==-1){
254          message.innerHTML="Invalid Name";
255          document.Registration.FullName.focus();
256          return false;
257      }
258      message.innerHTML="";
259      return true;
260  }
261
262  function validateFatherName(){
263      var message = document.getElementById('fatherMessage');
264      var fathername=document.Registration.FatherName.value;
265      if(isEmpty(fathername)){
266          message.innerHTML="Father's Name cannot be blank";
267          document.Registration.FatherName.focus();
268          return false;
269      }
270      var re=/^[a-zA-z ]{1,40}$/;
271      if(fathername.search(re)==-1){
272          message.innerHTML="Invalid Father's Name";
273          document.Registration.FatherName.focus();
274          return false;
275      }
276      message.innerHTML="";
277      return true;
278  }
279
280  function validatePhoneNumber(){
281      var message = document.getElementById('phoneMessage');
282      var phonenumber=document.Registration.PhoneNumber.value;
283      var re=/^[0-9]{8,11}$/;
284      if(phonenumber.search(re)==-1){
285          message.innerHTML="Invalid Phone Number";
286          document.Registration.PhoneNumber.focus();
287          return false;
288      }
289      message.innerHTML="";
290      return true;
291  }
```

```javascript
function validateDate(){
    var message = document.getElementById('dateMessage');
    var date=document.Registration.DateOfBirth.value;

    // regular expression to match required date format
    var re = /^(\d{1,2})[-\/](\d{1,2})[-\/](\d{4})$/;

    if(isEmpty(date)) {
      message.innerHTML = "Empty date not allowed!";
      document.Registration.DateOfBirth.focus();
      return false;
    }

    if(regs = date.match(re)) {
        var day=regs[1];
        var month=regs[2]-1;
        var year=regs[3];
        var composedDate=new Date(year,month,day);

        if( (composedDate.getDate() != day) ||
            (composedDate.getMonth() != month) ||
            (composedDate.getFullYear() != year)){

            message.innerHTML = "Invalid date entered(dd/mm/yyyy)";
            document.Registration.DateOfBirth.focus();
            return false;
        }
      }
      else {
          message.innerHTML = "Invalid date format(dd/mm/yyyy)";
          document.Registration.DateOfBirth.focus();
          return false;
      }
    message.innerHTML ="";
    return true;
}
function validateForm(){
    if(validateUserId() && validatePassword() && checkRetypePassword()
      && validateFullName() && validateFatherName() && validateEmail()
      && validatePhoneNumber()){
        return true;
    }
    else{
        return false;
    }
}
```