CSE3002-INTERNET AND WEB PROGRAMMING

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SLOT: L13+L14

LAB ASSIGNMENT-3

QUESTION:

Using CSS and HTML create a webpage that has two columns. Each column should use half of the width of the page. The left half should have a light gray background and the right half should have a light green background. The webpage right column should show the recipe for grilled cheese sandwiches with bacon and tomato. The ingredients should be displayed in left column as an unordered list, with no bullets. meat ingredients should have a light red background color, vegetables should have a light green background, and dairy products should have a light yellow. The title should be in a sans serif font of your choice, and the instructions should have a heading "Instructions" and the font for the instructions should be italic.

PROCEDURE:

The tags and attributes used:

<html>-

Root element of an HTML page(contains everything in the html)

<head> -

Tells information about the document and contains any links

<title> -

Gives the topic/name of the document(when we show it on browser the name of the tab is that name)

<style>-

Defines style information for a document

Properties:

<u>margin</u> properties are used to create space around elements, outside of any defined borders.

<u>padding</u> properties are used to generate space around an element's content, inside of any defined borders.

background-color property specifies the background color of an element.

display property specifies if/how an element is displayed.

<u>font-family</u> property should hold several font names as a "fallback" system. If the browser does not support the first font, it tries the next font, and so on.

font-style property is mostly used to specify italic text

font-size property sets the size of the text.

<u>border properties</u> allow you to specify the style, width, and color of an element's border.

border-width property specifies the width of the four borders.

border-color property is used to set the color of the four borders.

<h1>,<h2>,<h3>,<h4>,<h5>,<h6>-

The different sizes of headings we can use in which h1 is the largest and h6 is the smallest

<body>-

Contains the body, i.e. the content of the body

<meta>-

Lets your document be responsive

<div>-

Converts the document into sections to which we can give specific classes or ids

Attributes:

style- The style attribute is used to add styles to an element, such as color, font, size, and more.

class- used to specify a class for an HTML element.

id-used to specify a unique id for an HTML element.

<|i>-

defines a list item.

used for specifying an unordered list, which groups a collection of items having no numerical order.

CODE AND OUTPUT:

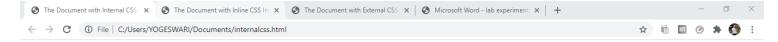
INTERNAL CSS:

internalcss.html

<!DOCTYPE html>

```
<html lang="en">
<head>
    <title>The Document with Internal CSS Implementation</title>
    <style>
        .row {
        display: flex;
        .column {
        flex: 50%;
        #col1{
            background-color: lightgray;
        #co12{
            background-color: lightgreen;
        ul{
            list-style-type:none
        #veges{
            background-color: lightgreen;
        #meat{
            background-color: red;
        #dairy{
            background-color: lightyellow;
        h3{
            font-style: italic;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
            font-weight: bold;
            font-size: larger;
        li{
            font-family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
            border-color:mediumblue;
            padding: 5px;
            margin: 15px;
            border-width: medium;
            border-radius: 5px;
```

```
h5{
           font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, V
erdana, sans-serif
       h1{
           font-family: Verdana, Helvetica, sans-serif;
    </style>
</head>
<body>
   <h1>Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) -YOGESWARI SAHU</h1>
   <h3>Internal CSS</h3>
   <div class="row">
       <div class="column" id="col1">
           <h3>Ingredients</h3>
           <l
               4 Slices Cooked Bacon
               5 Tablespoons soft Butter, Divided (or to taste)
               4 Slices bread (white or whole wheat)
               id="dairy">4 Slices Monterey Jack pepper cheese (or use American cheese)
id="veges"> 4 Slices Tomatoes 
           </div>
       <div class="column" id="col2">
           <h3>Instructions</h3>
               1) Spread about 1 tablespoon butter into the bottom of a large skillet
               (or just leave some fat in the pan from the bacon).
           </h5>
           <h5>2) Spread 1 tablespoon (can use more) onto one side of each slice of bread.</h
           <h5>3) Place the 4 slices of bread butter-
side down onto a large skillet or flat grill.</h5>
           <h5>4) Top with 1 slice of cheese, 2 slices of tomato and 2 slices cooked bacon, t
hen 1 more slice of cheese.</h5>
           <h5>5) Cover with a slice of bread (butter-side facing outside).</h5>
           <h5>6) Fry over medium turning once with a spatula until golden brown on both side
s.</h5>
       </div>
   </div>
</body>
</html>
```



Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) - YOGESWARI SAHU

Internal CSS



EXTERNAL CSS:

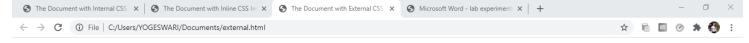
external.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>The Document with External CSS Implementation</title>
  <link rel="stylesheet" href="external.css">
</head>
<body>
   <h1>Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) -YOGESWARI SAHU</h1>
   <h3>External CSS</h3>
   <div class="row">
       <div class="column" id="col1">
          <h3>Ingredients</h3>
              4 Slices Cooked Bacon
              id="dairy">5 Tablespoons soft Butter, Divided (or to taste)
              4 Slices bread (white or whole wheat)
              id="dairy">4 Slices Monterey Jack pepper cheese (or use American cheese)
id="veges"> 4 Slices Tomatoes 
          </div>
       <div class="column" id="col2">
          <h3>Instructions</h3>
          <h5>
              1) Spread about 1 tablespoon butter into the bottom of a large skillet
```

external.css

```
.row {
display: flex;
}
.column {
flex: 50%;
}
#col1{
    background-color: lightgray;
}
#col2{
    background-color: lightgreen;
}
ul{
    list-style-type:none
}
#veges{
    background-color: lightgreen;
}
#meat{
    background-color: red;
}
#dairy{
```

```
background-color: lightyellow;
h3{
    font-style: italic;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    font-weight: bold;
    font-size: larger;
li{
    font-family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
    border-color:mediumblue;
    padding: 5px;
    margin: 15px;
    border-width: medium;
    border-radius: 5px;
h5{
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, V
erdana, sans-serif
h1{
    font-family: Verdana, Helvetica, sans-serif;
```



Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) - YOGESWARI SAHU

External CSS

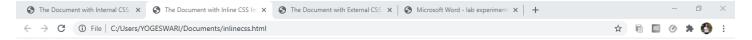


INLINE CSS:

inlinecss.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>The Document with Inline CSS Implementation</title>
<body>
   <h1 style="font-family: Verdana, Helvetica, sans-
serif;">Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) -YOGESWARI SAHU</h1>
   <h3 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
Verdana, sans-serif;">Inline CSS</h3>
   <div style="display: flex;">
       <div style="flex: 50%; background-color: lightgray;">
          <h3 style="font-style: italic;font-</pre>
family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
          font-weight: bold;font-size: larger;">Ingredients</h3>
          family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
              border-color:mediumblue; padding: 5px; margin: 15px; border-width: medium;
              border-radius: 5px;">4 Slices Cooked Bacon
              family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
              border-color:mediumblue; padding: 5px; margin: 15px; border-width: medium;
              border-radius: 5px;">5 Tablespoons soft Butter, Divided (or to taste)
             family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
              border-color:mediumblue; padding: 5px; margin: 15px; border-width: medium;
              border-radius: 5px;">4 Slices bread (white or whole wheat)
              family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
              border-color:mediumblue; padding: 5px; margin: 15px; border-width: medium;
              border-
radius: 5px;">4 Slices Monterey Jack pepper cheese (or use American cheese) <math>
              family: Impact, Haettenschweiler, 'Arial Narrow', sans-serif;
              border-color:mediumblue; padding: 5px; margin: 15px; border-width: medium;
              border-radius: 5px;"> 4 Slices Tomatoes 
          </div>
       <div style="flex: 50%; background-color: lightgreen;">
          <h3 style="font-style: italic;font-</pre>
family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
         font-weight: bold;font-size: larger;">Instructions</h3>
```

```
<h5 style="font-
family:'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
serif;">1) Spread about 1 tablespoon butter into the bottom of a large skillet
                (or just leave some fat in the pan from the bacon).</h5>
            <h5 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
             Verdana, sans-
serif;">2) Spread 1 tablespoon (can use more) onto one side of each slice of bread.</h5>
            <h5 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
             Verdana,sans-serif;">3) Place the 4 slices of bread butter-
side down onto a large skillet or flat grill.</h5>
            <h5 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
             Verdana, sans-
serif;">4) Top with 1 slice of cheese, 2 slices of tomato and 2 slices cooked bacon,
              then 1 more slice of cheese.</h5>
            <h5 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
             Verdana, sans-serif;">5) Cover with a slice of bread (butter-
side facing outside).</h5>
            <h5 style="font-
family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
             Verdana, sans-
serif;">6) Fry over medium turning once with a spatula until golden brown on both sides.</h5>
        </div>
    </div>
</body>
 /html>
```



Grilled Cheese Sandwiches with Bacon and Tomato (18BCE0928) - YOGESWARI SAHU

Inline CSS



LAB ASSIGNMENT-4

QUESTION:

- 4. Write a javascript program to validate HTML form fields in a webpage.
- i. Design a Registration Webpage for an insurance company.
- ii. The form must contain a minimum of 10 fields.
- iii. Implement Java Script with regular expression to validate the following
- iv. For Last Name field the last name should be dot(.) followed by single letter combination(Note: K or .N.L is allowed.kumar or Nakul is not allowed).
- v. For E-Mail ID accept only the gmail ID.
- vi. With the Data of Birth input, calculate the age of the person and populate it in the textbox automatically.
- vii. Validate the form for empty field submissions.

PROCEDURE:

The tags and attributes used are:

<html>-

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<head> -

Tells information about the document and contains any links

<title> -

Gives the topic/name of the document(when we show it on browser the name of the tab is that name)

<style>-

Defines style information for a document

Properties:

<u>margin</u> properties are used to create space around elements, outside of any defined borders.

background-color property specifies the background color of an element.

display property specifies if/how an element is displayed.

<u>font-family</u> property should hold several font names as a "fallback" system. If the browser does not support the first font, it tries the next font, and so on.

<u>font-weight</u> property sets how thick or thin characters in text should be displayed.

<u>border properties</u> allow you to specify the style, width, and color of an element's border.

border-radius property specifies the radius of the four corners.

<u>border-color</u> property is used to set the color of the four borders.

<h1>,<h2>,<h3>,<h4>,<h5>,<h6>-

The different sizes of headings we can use in which h1 is the largest and h6 is the smallest

<body>-

Contains the body, i.e. the content of the body

<meta>-

Lets your document be responsive

<div>-

Converts the document into sections to which we can give specific classes or ids

Attributes:

style- The style attribute is used to add styles to an element, such as color, font, size, and more.

class- used to specify a class for an HTML element.

id-used to specify a unique id for an HTML element.

<input>-

used the type of information used to receive from users

Attributes:

type- Specifies field input type, including text password, date,

time, checkbox, etc.

maxlength - Maximum input element characters allowed

min- The minimum value of an input element

max- The maximum value of an input element
size- The input element width in characters
Required-used to ensure the input element is completed before submitting
the form

<label>-

tells what the user will enter in each input field

Attributes:

for- Specifies which form element(s) a label/calculation is bound to <select>-

Dropdown box for users to select from options given

<option>-

defines the options given for the dropdown using select tag

-

Gives a line space

<textarea>-

specifies a large area for text input

<script>-

used to embed a client-side script (JavaScript).

Attributes:

src-Specifies the URL of an external script file

```
type- Specifies the media type of the script
```

Events-

HTML events are "things" that happen to HTML elements.

When JavaScript is used in HTML pages, JavaScript can "react" on these events.

onsubmit event-

occurs when a form is submitted.

The HTML DOM document object-

the owner of all other objects in your web page.

document.getElementById(id)- Find an element by element id

Methods-

addEventListener() -

attaches an event handler to the specified element.

alert() -

displays an alert box with a specified message and an OK button.

test() -

tests for a match in a string.

focus() -

used to give focus to an element (if it can be focused).

blur() -

is used to remove focus from an element.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Insurance Company with Validation using JS</title>
<style>
    .maindiv {
        text-align: center;
        background-color: lightgreen;
   h1{
        margin-bottom: 5px;
        background-color: lightsalmon;
        border-radius: 10px;
   input, select{
       margin: 8px 0px 11px 0px;
   label{
        font-family: Verdana, Geneva, Tahoma, sans-serif;
        font-weight: bold;
</style>
</head>
<body>
   <div class="maindiv">
   <form id="myForm">
        <h1>Insurance Registration Form 18BCE0928 YOGESWARI SAHU</h1>
        <label for="Fname">First Name:</label>
        <input type="text" id="fname" name="fname" required><br>
        <label for="Lname">Last Name:</label>
        <input type="text" id="lname" name="lname" required><br>
        <label for="email">Email:</label>
        <input type="text" id="email" name="email" required><br>
        <label for="phone">Phone number:</label>
        <input type="tel" id="phone" name="phone" required><br>
        <label for="DOB">Date of Birth:</label>
        <input type="date" id="DOB" name="DOB" required><br>
        <label for="ageId">Age:</label>
        <input type="text" id="ageId" name="age" required><br>
        <label for="gender">Gender:</label>
        <select name="gender" id="gender" required>
            <option value="male">Male</option>
            <option value="female">Female</option>
```

```
<option value="other">Other</option>
        </select><br>
        <label for="aadhar">Aadhar Card number:</label>
        <input type="number" id="aadhar" name="aadhar" required><br>
        <label for="address">Current Address: </label>
        <textarea name="address" id="address" cols="50" rows="5" required></textarea><br>
        <label for="pincode">Pincode:</label>
        <input type="number" id="pincode" name="pincode" required><br>
        <label for="agree">I agree that the given Information
            above is all true and I will abide to all the terms and conditions if anything fou
nd wrong.</label>
        <input type="checkbox" id="agree" name="agree" required><br>
        <input type="submit" value="Submit">
    </form>
</div>
<script type="text/javascript">
    document.getElementById("myForm").addEventListener("submit",function validate()
    {
        event.preventDefault()
        console.log("heyyy")
    var fname= document.getElementById("fname");
    var p1=/^[A-Za-z]{2,};
    if(!p1.test(fname.value))
        alert("Enter the name correctly");
        fname.focus();
    var lname= document.getElementById("lname");
    var p2=/^{.+[A-Z]{1}}/i;
    if(!p2.test(lname.value))
        alert("Wrong format! The last name should be dot(.)followed by single letter combinati
on");
        lname.focus()
    var email=document.getElementById("email");
    var p3=/^[a-zA-Z0-9._-]+\@[gmail|GMAIL]+\.(com)$/i;
    if(!p3.test(email.value))
        alert("Email should be Gmail Account");
        email.focus();
    var phno=document.getElementById("phone");
    var p4=/^[0-9]{10}$/i;
    if(!p4.test(phno.value))
        alert("Enter 10 digits for the phone number");
        phno.focus();
```

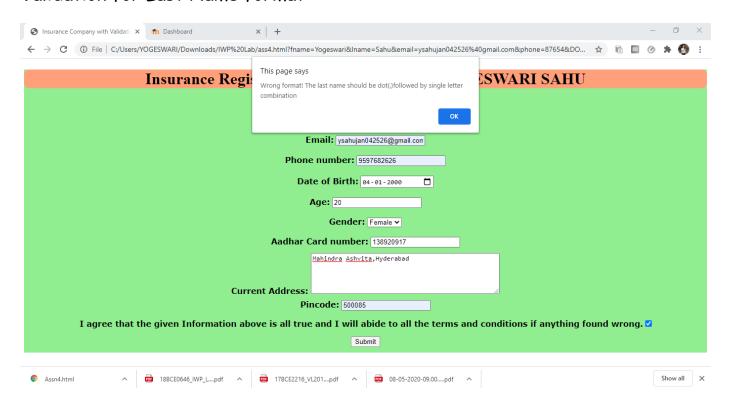
```
var aadhar=document.getElementById("aadhar");
   var p5=/^[0-9]{12}$/i;
   if(!p5.test(aadhar.value))
        alert("Enter 12 digits for Aadhar Card Number");
        aadhar.focus();
   var pin=document.getElementById("pincode");
   var p6=/^[0-9]{6}$/i;
   if(!p6.test(pin.value))
        alert("Enter 6 digits for the pincode");
        pin.focus();
   var DOB=document.getElementById("DOB");
   DOB.addEventListener("blur",function age(){
        "use strict";
       var dtDOB = DOB.value.substr(0,4);
        var dtCurrent = new Date();
        var age = document.getElementById("age");
        age.value= parseInt(dtCurrent.getFullYear()) -parseInt(dtDOB);
        });
   });
</script>
```

OUTPUT:

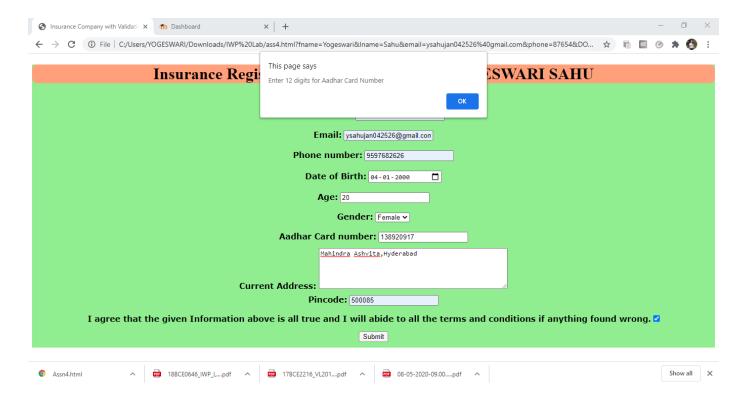
Initial form

Insurance Registration Form 18BCE0928 YOGESWARI SAHU
First Name:
Last Name:
Email:
Phone number:
Date of Birth: dd-mm-yyyy 📋
Age:
Gender: Male v
Aadhar Card number:
Current Address:
Pincode:
I agree that the given Information above is all true and I will abide to all the terms and conditions if anything found wrong. \Box
Submit Submit

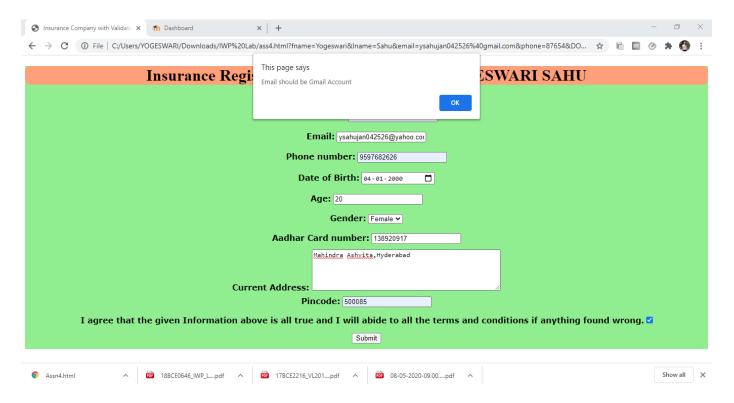
Validation for Last Name format



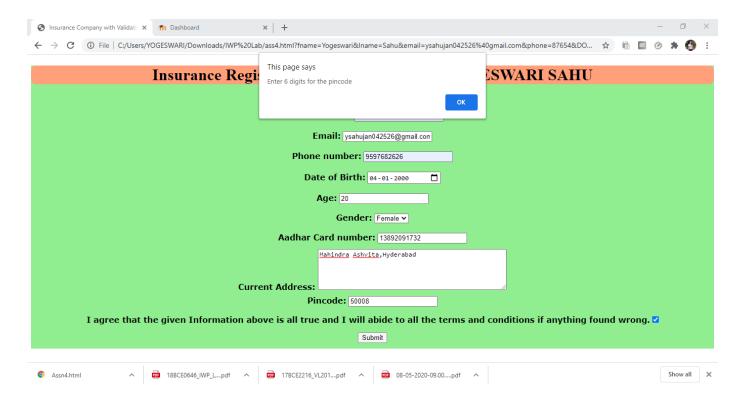
Validation for number of digits in Aadhar Card



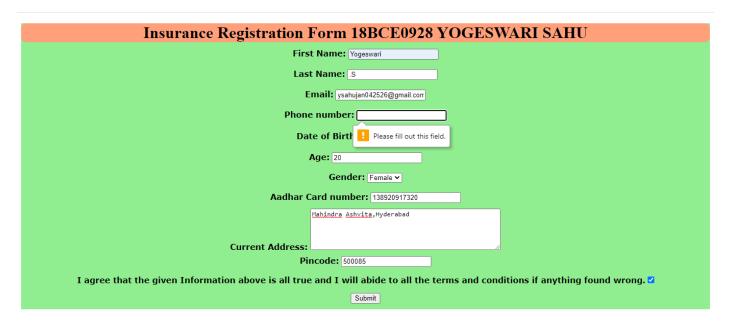
Validation for Gmail account ID



Validation for number of digits of Pincode



When a field was empty



Final form

Insurance Registration Form 18BCE0928 YOGESWARI SAHU
First Name: Yogeswari
Last Name: S
Email: ysahujan042526@gmail.com
Phone number: 9597682626
Date of Birth: 04-01-2000
Age: 20
Gender: Female v
Aadhar Card number: 138920917320
<u>Mahindra Ashvita</u> , Hyderabad
Current Address: Pincode: 500085
I agree that the given Information above is all true and I will abide to all the terms and conditions if anything found wrong.
Submit