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# HTML Element

The HTML **element** is everything from the start tag to the end tag:

### Code:

### 

<!DOCTYPE html>

<html>

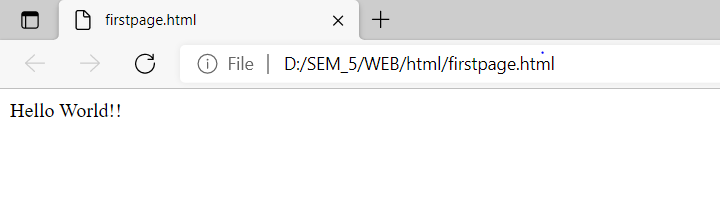
<body>

Hello World!!

</body>

</html>

### Output:



# HTML Headings

HTML headings are titles or subtitles that you want to display on a webpage. HTML headings are defined with the <h1> to <h6> tags.<h1> defines the most important heading. <h6> defines the least important heading.

### Code:

<!DOCTYPE html>

<html>

<body>

<h1>Heading 1</h1>

<h3>Heading 3</h3>

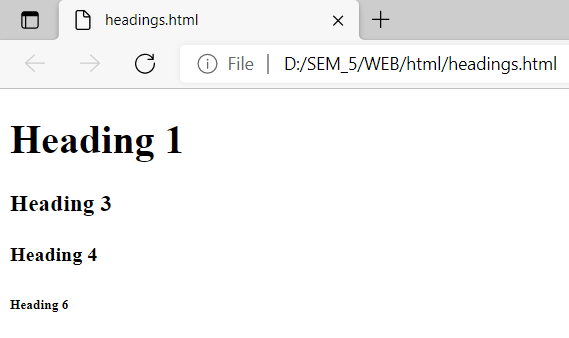
<h4>Heading 4</h4>

<h6>Heading 6</h6>

</body>

</html>

### Output:



# HTML Paragraphs

The HTML <p> element defines a paragraph.A paragraph always starts on a new line, and browsers automatically add some white space (a margin) before and after a paragraph.

### Code:

<!DOCTYPE html>

<html>

<body>

<p>This is a paragraph.</p>

<p>This is a paragraph.</p>

<p>This is a paragraph.</p>

</body>

</html>

### Output:

### 

# The Link tag

The <a> tag defines a hyperlink. The href attribute specifies the URL of the page the link goes to

### Code:

<!DOCTYPE html>

<html>

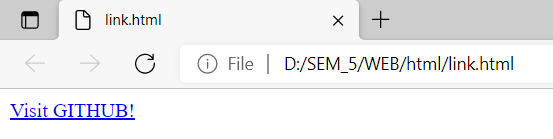
<body>

<a href="https://www.github.com">Visit GITHUB!</a>

</body>

</html>

### Output:



# The Image tag

The <img> tag is used to embed an image in an HTML page. The src attribute specifies the path to the image to be displayed.

### Code:

<!DOCTYPE html>

<html>

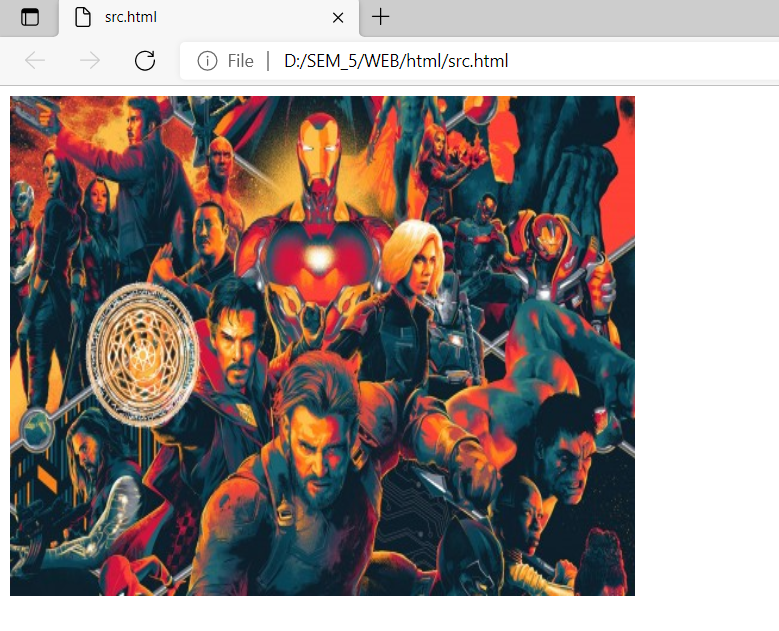
<body>

<img src="CS1.jpg" width="500" height="400">

</body>

</html>

### Output:



There are two ways to specify the URL in the src attribute:

1. **Absolute URL** - Links to an external image that is hosted on another website. Example: src="https://www.w3schools.com/images/img\_girl.jpg".
2. **Relative URL -** Links to an image that is hosted within the website. Here, the URL does not include the domain name. If the URL begins without a slash, it will be relative to the current page. Example: src="CS1.jpg". If the URL begins with a slash, it will be relative to the domain. Example: src="/images/CS1.jpg".

**Code:**

<!DOCTYPE html>

<html>

<head>

<title>Absolute Addressing in HTML with IMAGE</title>

</head>

<body>

<h1> Absolute image path</h1>

<img src="https://assets-cdn.kantipurdaily.com/uploads/source/news/kantipur/2021/third-party/pfizer-2192021024628-1000x0.jpg"&gt; width=”200” height=”200”/>

</body>

</html>

</html>

</html>

</html>

**Output:**



# HTML Comments

HTML comments are not displayed in the browser, but they can help document your HTML source code.

### Code:

<!DOCTYPE html>

<html>

<body>

<!-- This is a comment -->

<p>This is a paragraph.</p>

<!-- Comments are not displayed in the browser -->

</body>

</html>

### Output:

### 

# HTML Text Formatting

### Code:

<!DOCTYPE html>

<html>

<body>

<p><b>This text is bold</b></p>

<p><small>This is some smaller text.</small></p>

<p><i>This text is italic</i></p>

<p>This is<sub> subscript</sub> and <sup>superscript</sup></p>

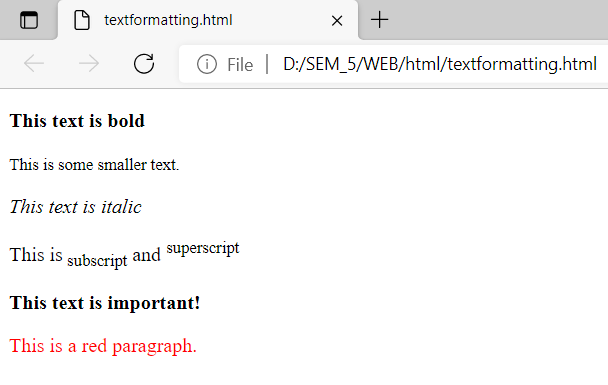
<p><strong>This text is important!</strong></p>

<p style="color:red;">This is a red paragraph.</p>

</body>

</html>

### Output:



# HTML Lists

### Code:

<html>

<head>

<title>Ordered and Unordered LIst</title>

</head>

<body>

<h1>Ordered List</h1>

<ol type="A" start="3">

<li>Web</li>

<li>Simulation</li>

<li>SAD</li>

</ol>

<h1>Unordered list</h1>

<ul type="circle" >

<li>Ram</li>

<li>Shyam</li>

<li>Hari</li>

</ul>

<h1>Nested List</h1>

<ol type="1">

<li>Subjects

<ol type="a">

<li>Math</li>

<li>Eco</li>

<li>Science</li>

</ol>

</li>

<li>Cars

<ol type="a">

<li>Lambo</li>

<li>Ferrari</li>

</ol>

</li></ol>

<h1>Definition List</h1>

<dl><dt>CPU</td>

<dd>Central Processing Unit</dd>

<dt>HTML</td>

<dd>Hyper text Markup Language</dd>

</dl>

<h1>The datalist elementas Auto complete Textbox</h1>

Enter Name <input list="studentnames">

<datalist id="studentnames">

<option>Ram</option>

<option>Shyam</option>

</datalist>

</body></html>

<h1>The datalist elementas Auto complete Textbox</h1>

Enter Name <input list="studentnames">

<datalist id="studentnames">

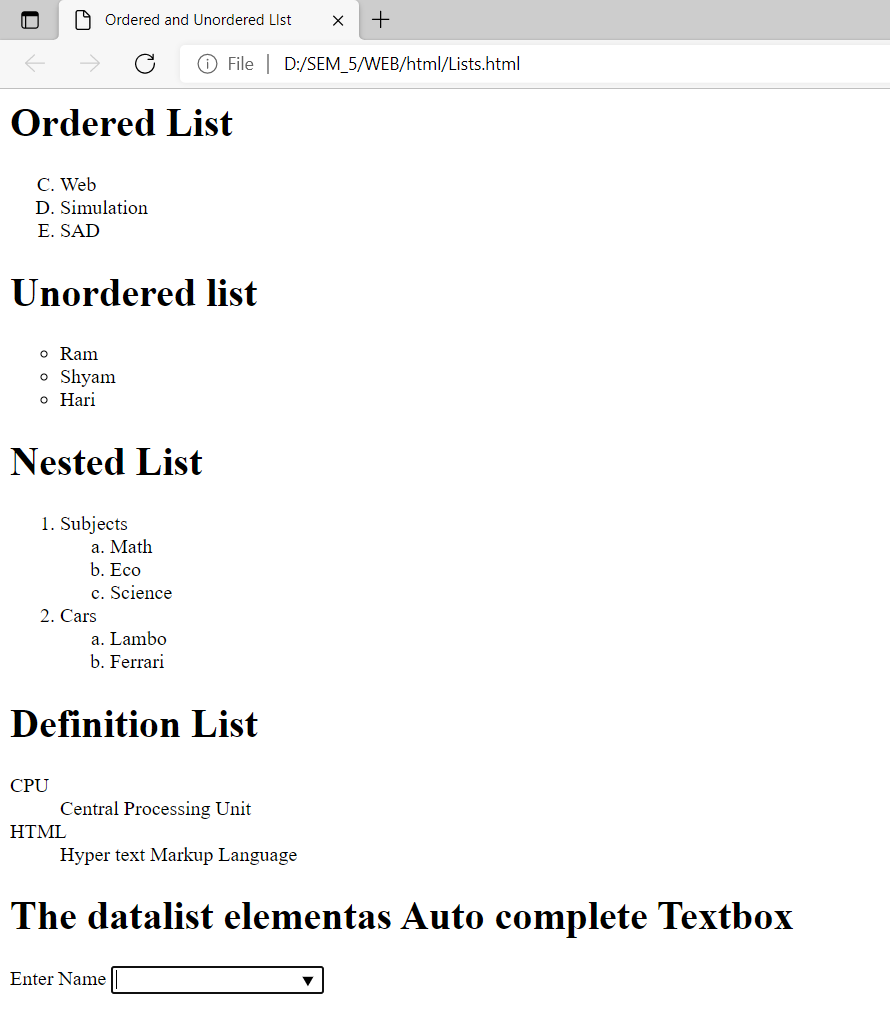
<option>Ram</option>

<option>Shyam</option>

</datalist>

</body></html>

### Output:



# HTML Form

### Code:

<html>

<head>

<title>Student Registration Form</title>

</head>

<body>

<form>

<h1>Student Registration</h1>

<table>

<tr>

<td>Name</td>

<td><input type="text"required></td>

</tr>

<tr>

<td>Email ID</td>

<td><input type="email" placeholder="Entr Email"></td>

</tr>

<tr>

<td>UserName</td>

<td<input type="email"></td>

</tr>

<tr>

<td>Password</td>

<td><input type="password" disabled></td>

</tr>

<tr>

<td>Confirm Password</td>

<td><input type="password" readonly></td>

</tr>

<tr>

<td>Gender</td>

<td>

<input type="radio" name="gender">Male<br>

<input type="radio" name="gender">Female<br>

20

<input type="radio" name="gender">Other<br>

</td>

</tr>

<tr>

<td>Fav. Color</td>

<td><input type="color"></td>

</tr>

<tr>

<td>Upload Profile PIcture</td>

<td><input type="file" required ></td>

</tr>

<tr>

<td>Expected Salary</td>

<td><input type="range" min="0" max=100"></td>

</tr>

<tr>

<td>Pincode</td>

<td><input type="number"></td>

</tr>

<tr>

<td>Address</td>

<td><textarea></textarea></td>

</tr>

<tr>

<td>DOB</td>

<td><input type="date"></td>

</tr>

<tr>

<td>How you Hear Us</td>

<td>

<select Multiple>

<option>Tv</option>

<option>Social Media</option>

<option>Radio</option>

<option>Friends</option>

</select>

</td>

21

</tr>

<tr>

<td>Select Course to apply</td>

<td>

<select >

<option>BBA</option>

<option>BBA BI</option>

<option>BCA</option>

<option>BHM</option>

</select>

</td>

</tr>

<tr>

<td>Agreen and Submit</td>

<td>

<input type="checkbox">Agree<br>

<input type="submit" value="Save" accesskey="s">

</td>

</tr>

</table>

</form>

</body>

</html>

### Output:

</td>

</tr>

<tr>

<td>Agreen and Submit</td>

<td>

<input type="checkbox">Agree<br>

<input type="submit" value="Save" accesskey="s">

</td>

</tr>

</table>

</form>

</body>

</html>

</select>

</td>

</tr>

<tr>

<td>Agreen and Submit</td>

<td>

<input type="checkbox">Agree<br>

<input type="submit" value="Save" accesskey="s">

</td>

</tr>

</table>

</form>

</body>

</html>

<td><input type="color"></td>

</tr>

<tr>

<td>Upload Profile PIcture</td>

<td><input type="file" required ></td>

</tr>

<tr>

<td>Expected Salary</td>

<td><input type="range" min="0" max=100"></td>

</tr>

<tr>

<td>Pincode</td>

<td><input type="number"></td>

</tr>

<tr>

<td>Address</td>

<td><textarea></textarea></td>

</tr>

<tr>

<td>DOB</td>

<td><input type="date"></td>

</tr>

<tr>

<td>How you Hear Us</td>

<td>

<select Multiple>

<option>Tv</option>

<option>Social Media</option>

<option>Radio</option>

<option>Friends</option>

</select>

</td>

21

</tr>

<tr>

<td>Select Course to apply</td>

<td>

<select >

<option>BBA</option>

<option>BBA BI</option>

<option>BCA</option>

<option>BHM</option>

</select>

</td>

</tr>

<tr>

<td>Agreen and Submit</td>

<td>

<input type="checkbox">Agree<br>

<input type="submit" value="Save" accesskey="s">

</td>

</tr>

</table>

</form>

</body>

</html>

### Output:

### 

# HTML Canvas Graphics

### Code:

<!DOCTYPE html>

<html>

<body>

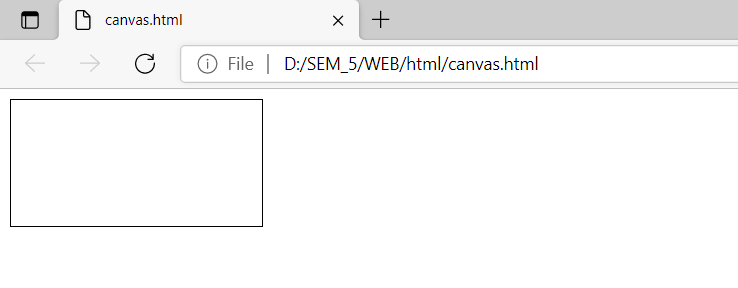
<canvas id="myCanvas" width="200" height="100" style="border:1px solid #000000;">

</canvas>

</body>

</html>

### Output:



# HTML Tables

### Code:

<html>

<head>

<title> Tables In HTMl</title>

</head>

<body>

<h1> Simple table (old way)</h1>

<table border="1" width="500" bgcolor="pink" cellspacing="10" cellpadding="10" bordercolor="red">

<caption>Student List</caption>

<tr>

<td>Name</td>

<td>Age</td>

<td>RollNumber</td>

</tr>

<tr>

<td>Ram</td>

<td>34</td>

<td>12</td>

</tr>

<tr>

<td>Shyam</td>

<td>23</td>

<td>23</td>

</tr>

<tr>

<td>Total</td>

<td>2</td>

<td>2</td>

</tr>

</table>

<br>

<br>

<h1> Simple table (new way) dividing sections</h1>

<table border="1" width="500" bgcolor="pink" cellspacing="10" cellpadding="10" bordercolor="red";>

17

<caption>Student List</caption>

<thead>

<tr>

<td>Name</td>

<td>Age</td>

<td>RollNumber</td>

</tr>

</thead>

<tbody>

<tr>

<td>Ram</td>

<td>34</td>

<td>12</td>

</tr>

<tr>

<td>Shyam</td>

<td>23</td>

<td>23</td>

</tr>

</tbody>

<tfoot>

<tr>

<td>Total</td>

<td>2</td>

<td>2</td>

</tr>

</tfoot>

</table>

<h1> Mixing Cells</h1>

<table border="1">

<tr>

<td colspan="3"> student Statostics</td>

</tr>

<tr>

<td rowspan="2">Class</td>

<td>Boys</td>

<td>Gisl</td>

18

</tr>

<tr>

<td>20</td>

<td>25</td>

</tr>

<tr>

<td colspan="2">Toatl</td>

<td>45</td>

</tr>

</table>

</body>

</html>

<tr>

<td>Name</td>

<td>Age</td>

<td>RollNumber</td>

</tr>

</thead>

<tbody>

<tr>

<td>Ram</td>

<td>34</td>

<td>12</td>

</tr>

<tr>

<td>Shyam</td>

<td>23</td>

<td>23</td>

</tr>

</tbody>

<tfoot>

<tr>

<td>Total</td>

<td>2</td>

<td>2</td>

</tr>

</tfoot>

</table>

<h1> Mixing Cells</h1>

<table border="1">

<tr>

<td colspan="3"> student Statostics</td>

</tr>

<tr>

<td rowspan="2">Class</td>

<td>Boys</td>

<td>Gisl</td>

18

</tr>

<tr>

<td>20</td>

<td>25</td>

</tr>

<tr>

<td colspan="2">Toatl</td>

<td>45</td>

</tr>

</table>

</body>

</html>

</tr>

</thead>

<tbody>

<tr>

<td>Ram</td>

<td>34</td>

<td>12</td>

</tr>

<tr>

<td>Shyam</td>

<td>23</td>

<td>23</td>

</tr>

</tbody>

<tfoot>

<tr>

<td>Total</td>

<td>2</td>

<td>2</td>

</tr>

</tfoot>

</table>

<h1> Mixing Cells</h1>

<table border="1">

<tr>

<td colspan="3"> student Statostics</td>

</tr>

<tr>

<td rowspan="2">Class</td>

<td>Boys</td>

<td>Gisl</td>

18

</tr>

<tr>

<td>20</td>

<td>25</td>

</tr>

<tr>

<td colspan="2">Toatl</td>

<td>45</td>

</tr>

</table>

</body>

</html>

</tr>

<tr>

<td colspan="2">Toatl</td>

<td>45</td>

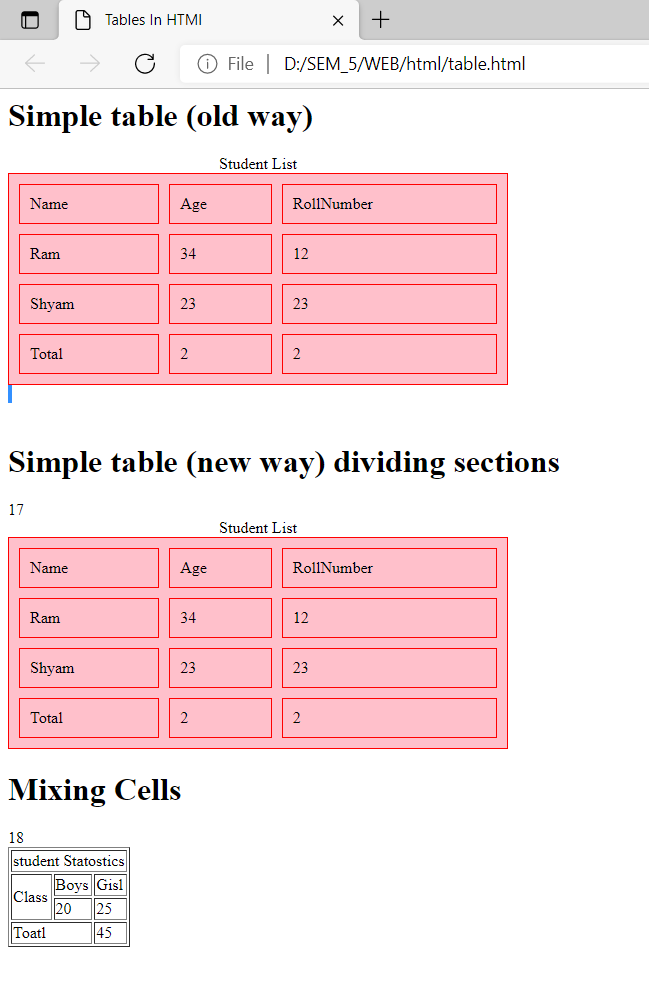
</tr>

</table>

</body>

</html>

### Output:



# HTML Frames

### Code:

<html>

<head>

<title>Frames in HTML</title>

</head>

<frameset rows="30%,40%,30%">

<frame src="links.html"></frame>

<frame src="Lists.html"></frame>

<frame src="table.html"></frame>

<noframes>

<body>your browser doesnot support frame</body>

</noframes>

</frameset>

</html>

### Code:

<!-- floating frames --!>

<html>

<head>

<title>floating frame (iframe) in HTML</title>

</head>

<body>

<iframe src="table.html" width="500" height="500"></iframe>

<iframe src="links.html" width="500" height="500"></iframe>

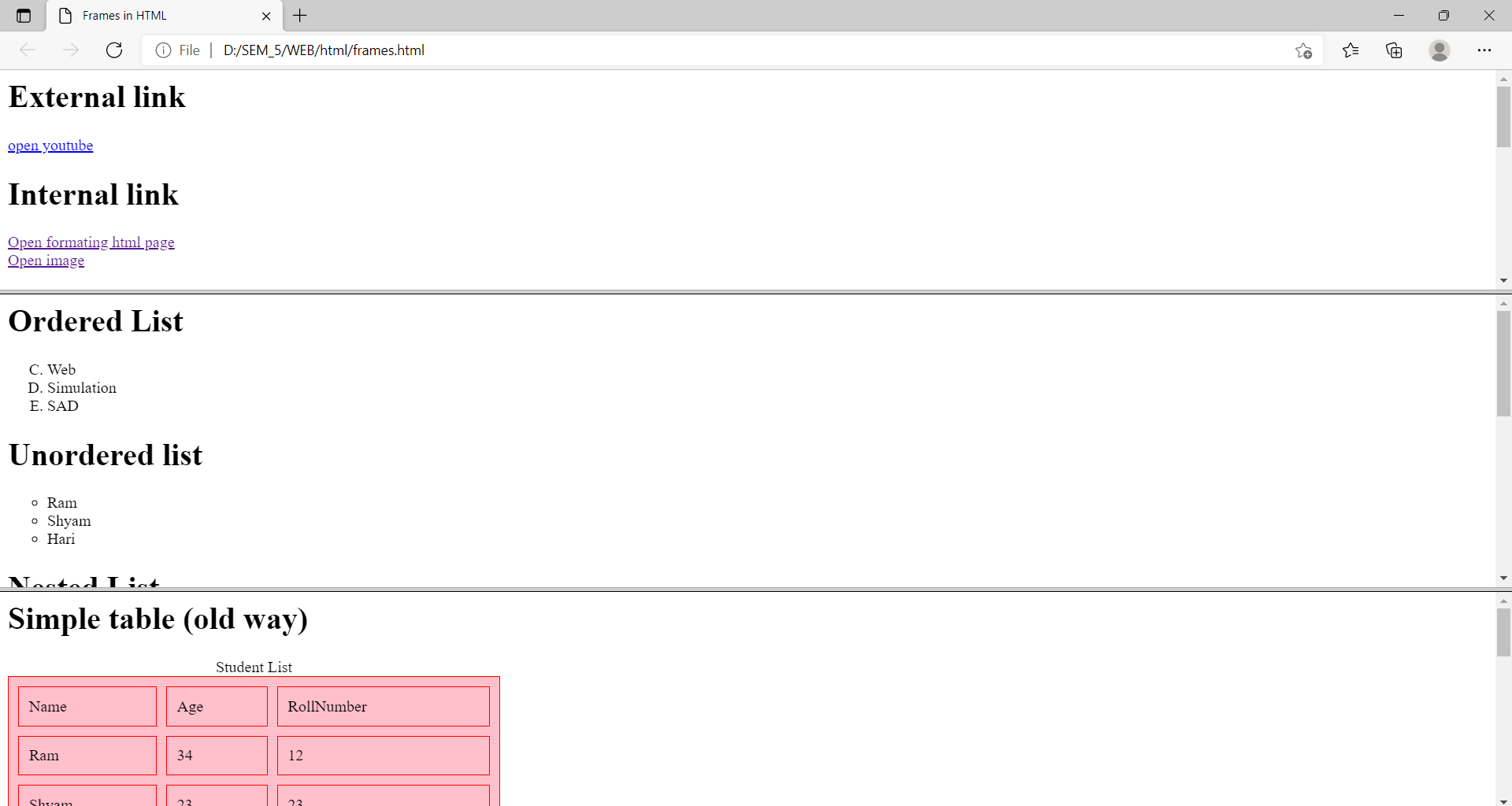
<iframe src="Lists.html" width="500" height="500"></iframe>

<body>

</html>

# 

### Output:



# HTML Global Tags

### Code:

<html>

<head>

<title>HTML Global Attributes</title>

<meta charset="UTF-8">

<meta name="description" content="Free Web tutorials">

<meta name="keywords" content="HTML, CSS, JavaScript">

<meta name="author" content="John Doe">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<ol>

<li>id</li>

<li>class</li>

<li>accesskey</li>

<li>spellcheck</li>

<li>lang</li>

<li>style</li>

</ul>

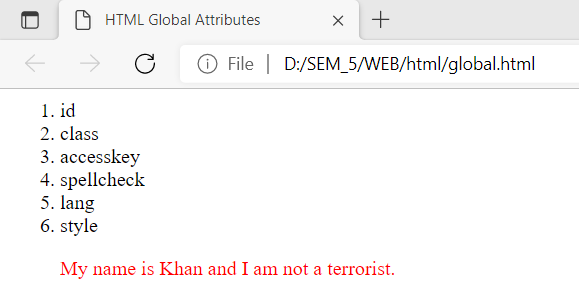
<p contenteditable="true" spellcheck="true" style="color:red;">

My name is Khan and I am not a terrorist.</p>

</body>

</html>

### Output:



# Inserting CSS

Cascading Style Sheet(CSS) is used to set the style in web pages that contain HTML elements. It sets the background color, font-size, font-family, color, … etc property of elements on a web page.

### Inline CSS Code:

<!DOCTYPE html>

<html>

    <head>

        <title>Inline CSS</title>

    </head>

    <body>

        <p style = "color:#009900; font-size:50px;

                font-style:italic; text-align:center;">

           LICT

        </p>

    </body>

</html>

### Internal CSS Code:

<!DOCTYPE html>

<html>

    <head>

        <title>Internal CSS</title>

        <style>

            .main {

                text-align:center;

            }

            .GFG {

                color:#009900;

                font-size:50px;

                font-weight:bold;

            }

            .lict {

                font-style:bold;

                font-size:20px;

            }

        </style>

    </head>

    <body>

        <div class = "main">

            <div class ="GFG">LICT</di

            <div class ="lict">

                A computer science Campus

            </div>

        </div>

    </body>

</html>

### External CSS code:

/\* external.css \*/

body {

    background-color:powderblue;

}

.main {

    text-align:center;

}

.GFG {

    color:#009900;

    font-size:50px;

    font-weight:bold;

}

#lict {

    font-style:bold;

    font-size:20px;

}

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" href="external.css"/>

<title>External CSS</title>

</head>

<body>

<div class = "main">

<div class ="GFG">LICT</div>

<div id ="lict">

A computer science Campus

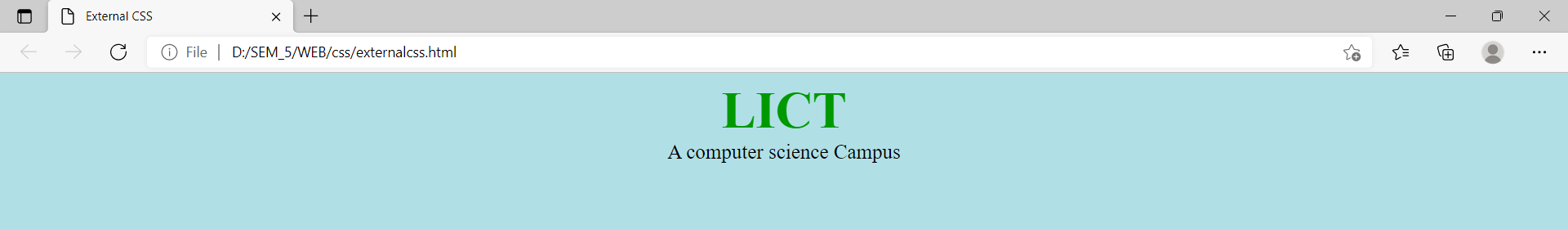
</div>

</div>

</body>

</html>

### Output:



# CSS Box Model

### Code:

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Colors Background And Borders</title>

    <style>

        #mydiv

        {

            width:500px;

            height:400px;

            background-color: red;

            background-image: url("uttu.jpg");

            border-radius: 300px 300px 300px 300px;

            border: 5px solid #11ff33;

        }

        #h1

        {

            font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;

            font-size: 25px;

            letter-spacing: 2px;

            word-spacing: 2px;

            color: #000000;

            font-weight: 700;

            text-decoration: line-through solid rgb(68, 68, 68);

            font-style: italic;

            font-variant:normal;

            text-transform:capitalize;

        }

    </style>

</head>

<body>

    <div id="mydiv"></div>

    <h1 id="h1">Hello This is heading1 and we are studying CSS.</h1>

</body>

</html>

## 

## Output:

### Output:

## 

# CSS Margin

### Code:

<!DOCTYPE html>

<html>

<head>

<style>

div {

  border: 1px solid black;

  margin-top: 100px;

  margin-bottom: 100px;

  margin-right: 150px;

  margin-left: 80px;

  background-color: lightblue;

}

</style>

</head>

<body>

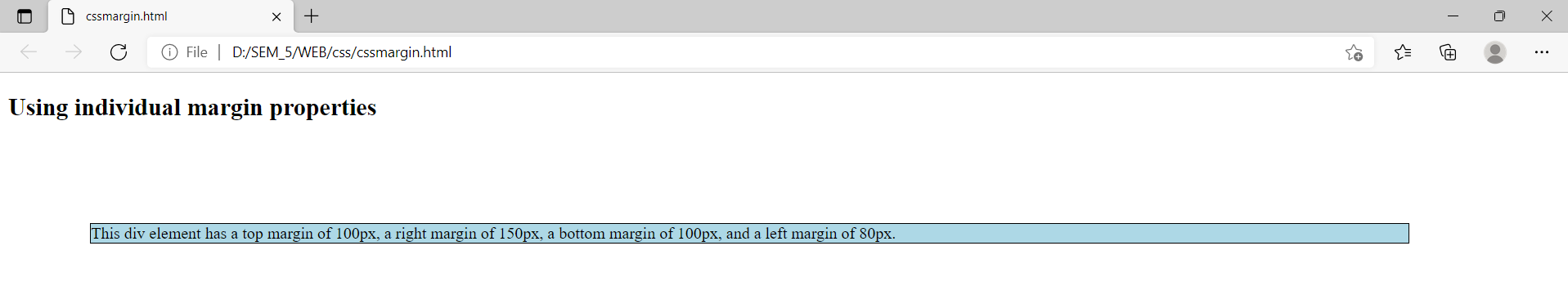
<h2>Using individual margin properties</h2>

<div>This div element has a top margin of 100px, a right margin of 150px, a bottom margin of 100px, and a left margin of 80px.</div>

</body>

</html>

### Output:



# CSS Padding

### Code:

<html>

<head>

<style>

div {

  border: 1px solid black;

  padding: 25px 50px 75px 100px;

  background-color: lightblue;

}

</style>

</head>

<body>

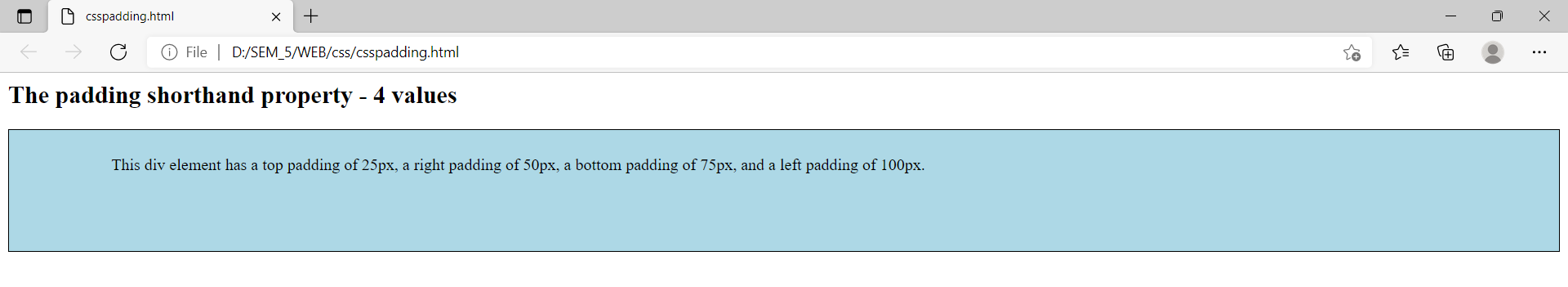
<h2>The padding shorthand property - 4 values</h2>

<div>This div element has a top padding of 25px, a right padding of 50px, a bottom padding of 75px, and a left padding of 100px.</div>

</body>

</html>

### Output:



# Responsive Web Design - Media Queries

### Code:

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body {

  background-color: lightgreen;

}

@media only screen and (max-width: 600px) {

  body {

    background-color: lightblue;

  }

}

</style>

</head>

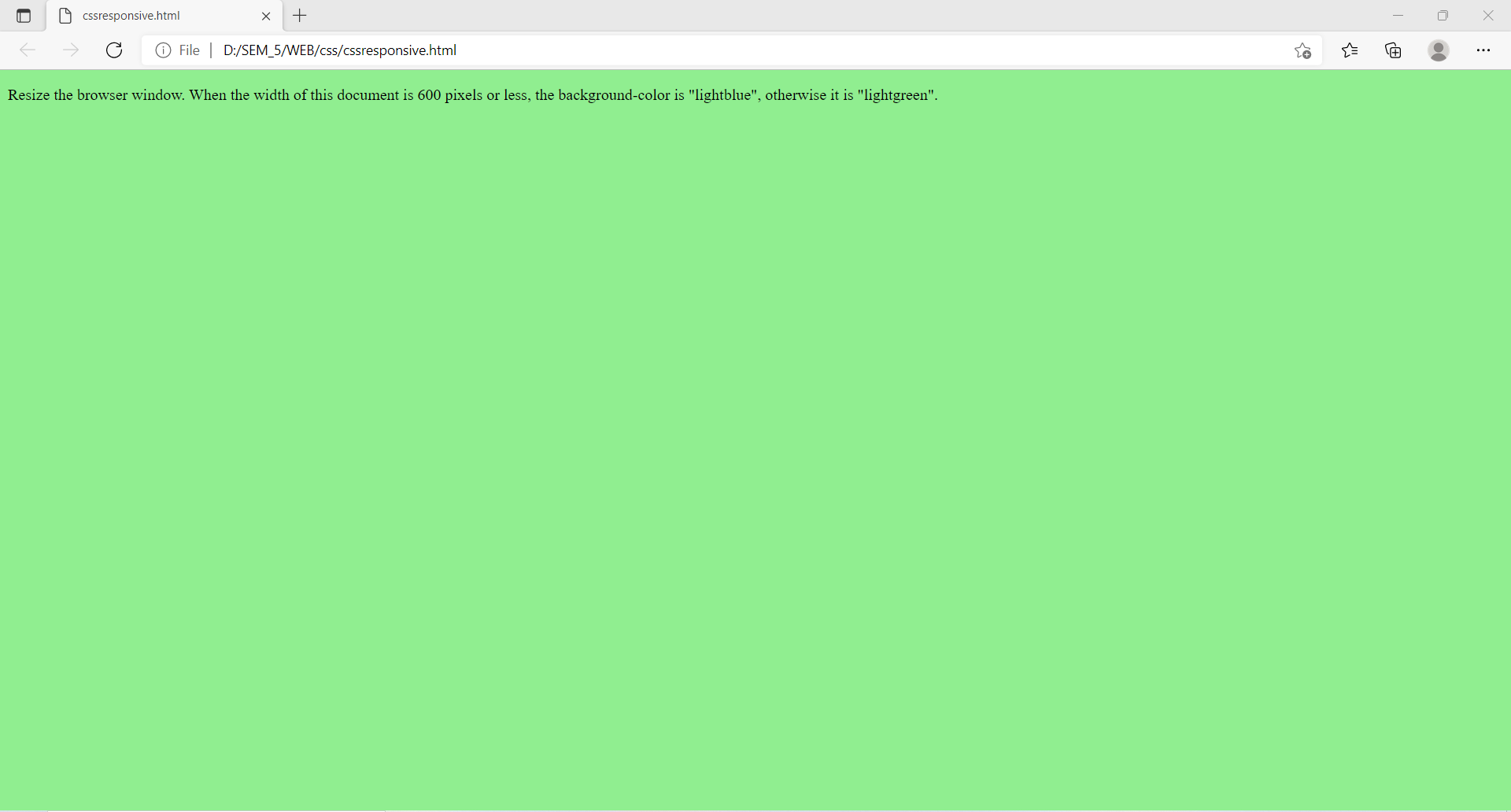
<body>

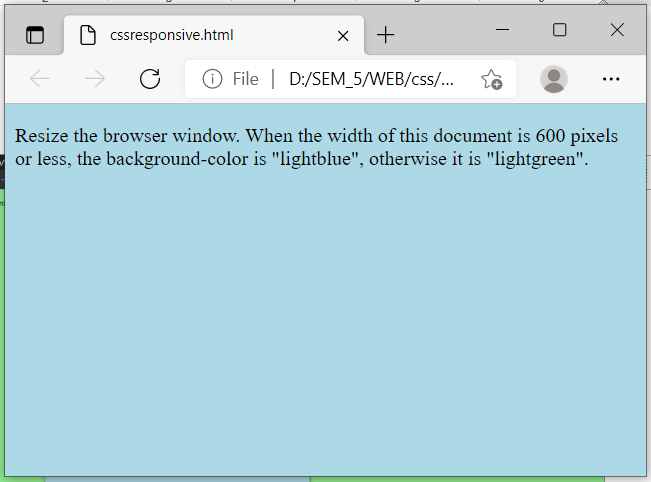
<p>Resize the browser window. When the width of this document is 600 pixels or less, the background-color is "lightblue", otherwise it is "lightgreen".</p>

</body>

</html>

### Output:





# Javascript Statements

### Code:

### 

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Statements</h2>

<p>JavaScript statements are separated by semicolons.</p>

<p id="demo1"></p>

<script>

let a, b, c;

a = 5;

b = 6;

c = a + b;

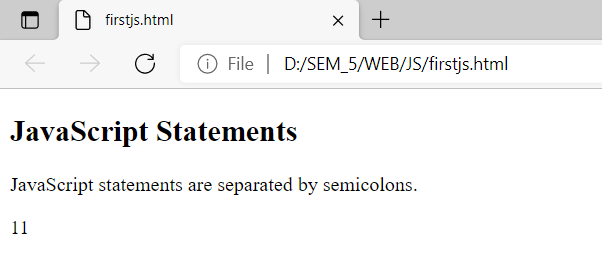
document.getElementById("demo1").innerHTML = c;

</script>

</body>

</html>

### Output:



# Javascript Functions

### Code:

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Functions</h2>

<p>This example calls a function which performs a calculation, and returns the result:</p>

<p id="demo"></p>

<script>

function myFunction(p1, p2) {

 return p1 \* p2;

}

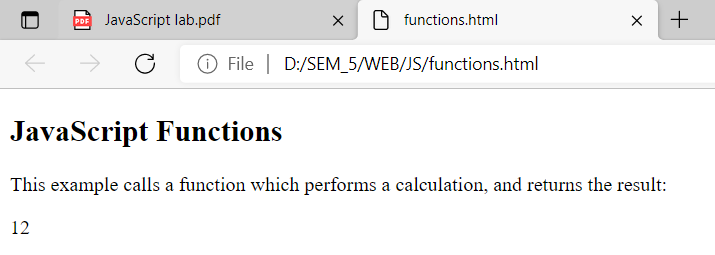
document.getElementById("demo").innerHTML = myFunction(4, 3);

</script>

</body>

</html>

### Output:



# IF Statements

### Code:

<!-- To alert Hello when user enters number divisible by 5 --!>

<!DOCTYPE html>

<html>

    <head>

        <title>If statement</title>

    </head>

    <body>

        <form>

            value <input type="text" id="txtvalue"> <br>

            <input type="button" value="OK" onclick="check()">

        </form>

    </body>

    <script>

        function check() {

            var n=Number(document.getElementById("txtvalue").value);

            if(n%5==0)

            {

                alert("Hello!");

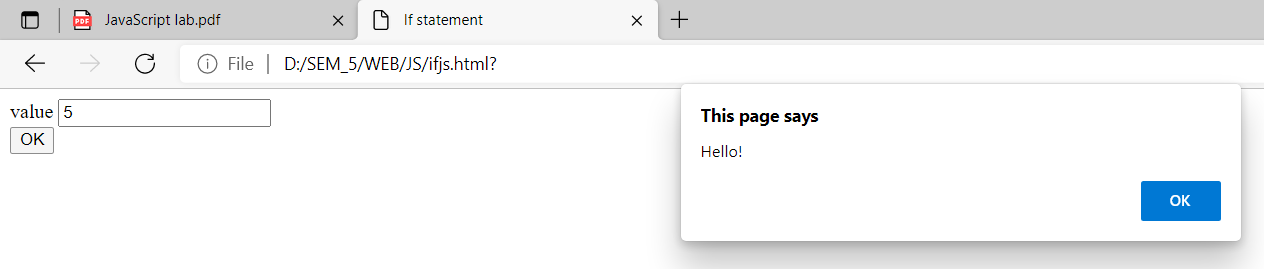
            }

        }

    </script>

</html>

### Output:



# FOR LOOP

### Code:

<!DOCTYPE html>

<html>

    <head>

        <title>Sum of first 'n' Natural No.</title>

    </head>

    <body>

        <form>

            Enter Number <input type="text" id="txtnum"> <br>

            <input type="button" value="Sum" onclick="sum()"><br>

            Result<input type="text" id="txtresult">

        </form>

    </body>

    <script>

        function sum() {

         var n=Number(document.getElementById("txtnum").value);

         var s=0;

         var i;

         for (i=1;i<=n;i++)

         {

             s=s+i;

         }

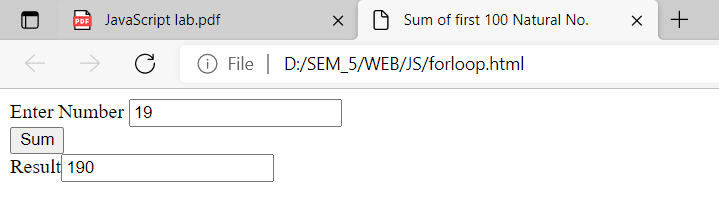
         document.getElementById("txtresult").value=s;

        }

    </script>

</html>

### Output:



# Javascript Arrays

### Code:

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Sum Of Array</title>

  </head>

  <body>

    <form action="" id="sum">

      <input class="number" type="number" name="number1" id="" />

      <input class="number" type="number" name="number2" id="" />

      <input class="number" type="number" name="number3" id="" />

      <input class="number" type="number" name="number4" id="" />

      <input type="submit" value="calculate" />

      <div id="result"></div>

    </form>

    <script>

      const form = document.getElementById("sum");

      const resultDiv = document.getElementById("result");

      const arr = [];

      form.addEventListener("submit", (e) => {

        e.preventDefault();

        const numberInputs = document.getElementsByClassName("number");

        let sum = 0;

        for (const input of numberInputs) {

          arr.push(Number(input.value));

        }

        sum = arr.reduce((number, acc) => {

          return acc + number;

        });

        resultDiv.textContent = `Sum is ${sum}`;

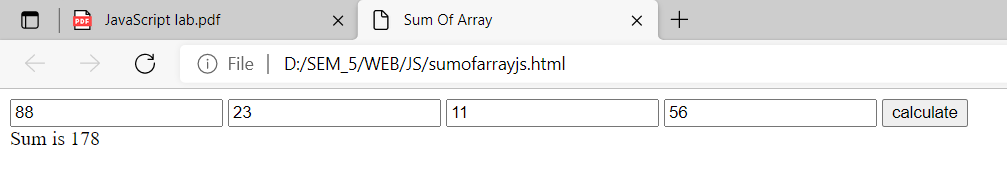
      });

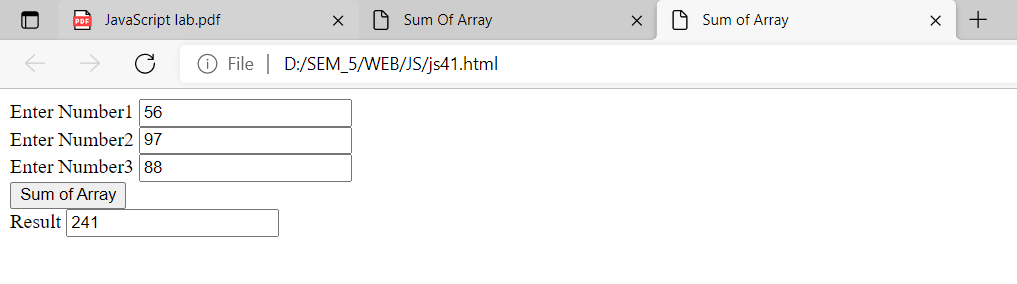
    </script>

  </body>

</html>

### Output:





# Javascript Constructors

### Code:

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Object Constructors</h2>

<p id="demo"></p>

<script>

function Person(first, last, age, eye) { // Constructor function for Person objects

 this.firstName = first;

 this.lastName = last;

 this.age = age;

 this.eyeColor = eye;

}

const myFather = new Person("John", "Doe", 50, "blue");// Create a Person object

// Display age

document.getElementById("demo").innerHTML =

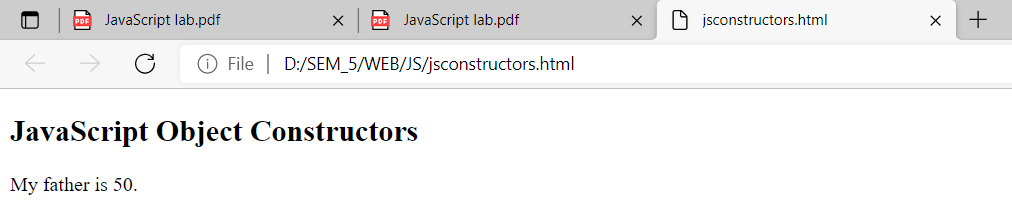
"My father is " + myFather.age + ".";

</script>

</body>

</html>

### Output:



# Cookies

### Code:

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Cookie</title>

</head>

<body>

    <form>

        Your Name<input type="text" id="txt"><br>

        <input type="button" value="Write Cookie" onclick="setcoookie()"><br>

        <input type="button" value="Read Cookie" onclick="readcoookie()"><br>

    </form>

</body>

<script>

    function setcoookie(){

        var name = document.getElementById("txt").value;

        if(name!= ""){

            document.cookie = "name="+name+";";

            alert("Cookie is set.");

        }

    }

    function readcoookie(){

        var name = "";

        name = document.cookies;

        alert(name);

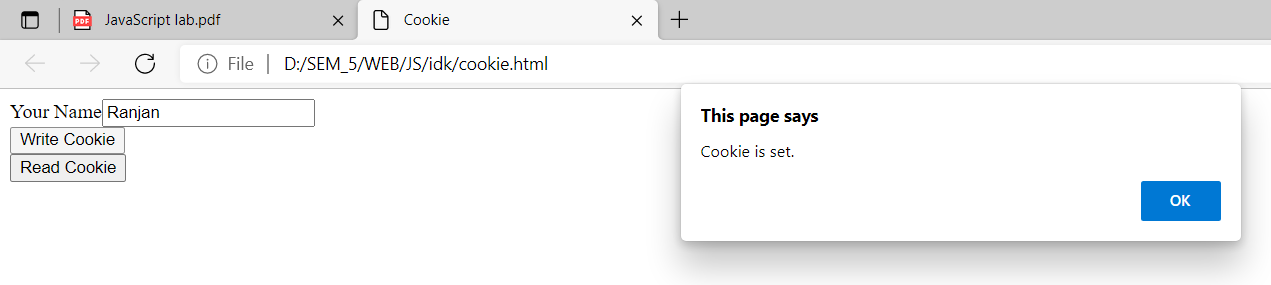
    }

</script>

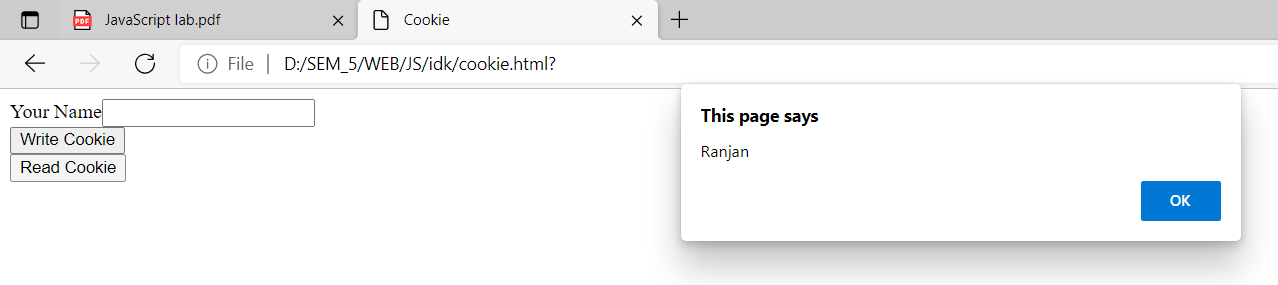
</html>

### Output:

*Write Cookie*

**

*Read Cookie*

**

# XML

### Code:

<?xml version = "1.0" encoding="UTF-8" standalone="yes"?>

<document>

  <employee>

    <name>Ranjan Khanal</name>

    <roll>12</roll>

    <address>Kshetrapur</address>

  </employee>

  <employee>

    <name>Anjan Dhakal</name>

    <roll>18</roll>

    <address>BusPark</address>

  </employee>

  <employee>

    <name>Sabin Adhikari</name>

    <roll>69</roll>

    <address>Narayangarh</address>

  </employee>

</document>

# Accessing Form Elements with PHP

### Code:

<!DOCTYPE html>

<?php

    $a=0;

    $b=0;

    $c=0;

    if(isset($\_POST["btnsum"])){

        $a = $\_POST["txt1"];

        $b = $\_POST["txt2"];

        $c = $a + $b;

    }

?>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Sum</title>

</head>

<body>

    <form action="firstphp.php" method="post">

        Value1<input type="text" name="txt1" value="<?php echo $a;?>"><br>

        Value2<input type="text" name="txt2" value="<?php echo $b;?>"><br>

        <input type="submit" value="sum" name="btnsum"><br>

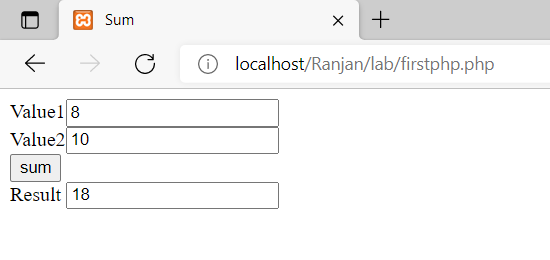
        Result <input type="text" name="txtresult" value="<?php echo $c;?>">

    </form>

</body>

</html>

### Output:



# PHP Class and Objects

### Code:

<?php

class student{

    public $name=" ";

    public $phone=" ";

    public $age=0;

    function \_\_construct($name,$phone,$age){

        $this->name=$name;

        $this->phone=$phone;

        $this->age=$age;

    }

    function show(){

        echo("<br>Name: ".$this->name);

        echo("<br>Phone:".$this->phone);

        echo("<br>Age:".$this->age);

    }

}

$obj = new student("Ram","1234",5);

$obj->show();

?>

### Output:

