**Write a single html program through which you can explain a) anchor tag, b)’img’ tag with ‘src’ attribute, c)paragraph d) heading.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>HTML Basics</title>

</head>

<body>

<h1>HTML Basics</h1>

<p>This is a <a href="https://www.example.com" target="\_blank">link</a> to Example.com.</p>

<p>Below is an image:</p>

<img src="https://via.placeholder.com/150" alt="Placeholder Image">

</body>

</html>

Write a single html program through which you can draw a table which consists of 3 row and 4 columns where 1st row contains 4 different column fields of a student’s information with red text color and Calibri font style with font 12. Rest cells of whole table contain values with blue text colors and Times new roman font style with font 10.

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Student Information</title>

<style>

table {

border-collapse: collapse;

width: 100%;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: left;

}

th {

color: red;

font-family: Calibri, sans-serif;

font-size: 12px;

}

td {

color: blue;

font-family: "Times New Roman", serif;

font-size: 10px;

}

</style>

</head>

<body>

<h2>Student Information</h2>

<table>

<tr>

<th>Name</th>

<th>Age</th>

<th>Grade</th>

<th>City</th>

</tr>

<tr>

<td>John Doe</td>

<td>20</td>

<td>Grade A</td>

<td>New York</td>

</tr>

<tr>

<td>Jane Smith</td>

<td>22</td>

<td>Grade B</td>

<td>Los Angeles</td>

</tr>

<tr>

<td>Bob Johnson</td>

<td>19</td>

<td>Grade C</td>

<td>Chicago</td>

</tr>

</table>

</body>

</html>

Write a single html program where 1st paragraph can collect its specified style from internal stylesheet describes inside that html program and 2nd paragraph can collect its specified style from another file (external stylesheet).

Code:

**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Internal and External Stylesheets</title>

<!-- Internal Stylesheet -->

<style>

/\* Style for the first paragraph \*/

#internal-paragraph {

color: blue;

font-family: Arial, sans-serif;

font-size: 16px;

}

</style>

<!-- External Stylesheet -->

<link rel="stylesheet" type="text/css" href="external-styles.css">

</head>

<body>

<!-- First Paragraph with Internal Styles -->

<p id="internal-paragraph">This paragraph gets its style from the internal stylesheet.</p>

<!-- Second Paragraph with External Styles -->

<p class="external-paragraph">This paragraph gets its style from the external stylesheet.</p>

</body>

</html>

**CSS**

/\* external-styles.css \*/

/\* Style for the second paragraph \*/

.external-paragraph {

color: green;

font-family: Times New Roman, serif;

font-size: 18px;

}

Write a single html program which implements image map concept using ‘usemap’ and .

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Image Map Example</title>

</head>

<body>

<h2>Click on different parts of the image</h2>

<!-- Image with usemap attribute -->

<img src="Joydeep\_50KB.jpg" alt="Image with Image Map" usemap="#exampleMap">

<!-- Map element defining the image map areas -->

<map name="exampleMap">

<!-- Define an area for the first clickable region -->

<area shape="rect" coords="0,0,100,100" alt="Top Left" href="#topLeft">

<!-- Define an area for the second clickable region -->

<area shape="circle" coords="200,200,50" alt="Center" href="#center">

<!-- Define an area for the third clickable region -->

<area shape="poly" coords="300,0,400,100,300,200" alt="Triangle" href="#triangle">

</map>

<!-- Display area information when clicked -->

<div id="info"></div>

<!-- Script to handle click events and display area information -->

<script>

document.querySelector('img').addEventListener('click', function (event) {

// Get the clicked coordinates

const x = event.clientX - this.getBoundingClientRect().left;

const y = event.clientY - this.getBoundingClientRect().top;

// Display the clicked coordinates

document.getElementById('info').innerHTML = `Clicked at (${x}, ${y})`;

});

</script>

</body>

</html>

**Convert temperature**

<!DOCTYPE html>

<html>

<title>Fahrenheit to Celcius Temperature Converter</title>

<body>

<h2>Temperature Converter</h2>

<p>Type a value in the Fahrenheit field to convert the value to Celsius:</p>

<p>

<label>Fahrenheit</label>

<input id="inputFahrenheit" type="number" placeholder="Fahrenheit" oninput="temperatureConverter(this.value)" onchange="temperatureConverter(this.value)">

</p>

<p>Celcius: <span id="outputCelcius"></span></p>

<script>

function temperatureConverter(valNum) {

valNum = parseFloat(valNum);

document.getElementById("outputCelcius").innerHTML=(valNum-32)/1.8;

}

</script>

</body>

</html>

**Student info table**

<!DOCTYPE html>

<!-- saved from url=(0035)http://127.0.0.1:5500/Ques2\_CF.html -->

<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

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

<title>Student Information Table</title>

<style>

table {

border-collapse: collapse;

width: 80%;

margin: 70px;

}

th, td {

border: 3px solid black;

padding: 15px;

text-align: center;

}

th {

background-color:antiquewhite;

}

.header-cell {

color: red;

font-family: Calibri, sans-serif;

font-size: 20px;

}

.data-cell {

color: blue;

font-family: "Times New Roman", serif;

font-size: 15px;

}

</style>

</head>

<body>

<div align="left" style="font-size: 30px;"><h>Student Information Table</h></div>

<!-- Table -->

<table>

<thead>

<tr>

<th class="header-cell">Student ID</th>

<th class="header-cell">Name</th>

<th class="header-cell">Age</th>

<th class="header-cell">Grade</th>

</tr>

</thead>

<tbody>

<tr>

<td class="data-cell">100</td>

<td class="data-cell">Anjali Jha</td>

<td class="data-cell">20</td>

<td class="data-cell">A</td>

</tr>

<tr>

<td class="data-cell">101</td>

<td class="data-cell">Avishek Roy</td>

<td class="data-cell">21</td>

<td class="data-cell">B</td>

</tr>

<tr>

<td class="data-cell">102</td>

<td class="data-cell">Varun Gupta</td>

<td class="data-cell">21</td>

<td class="data-cell">C</td>

</tr>

</tbody>

</table>

<!-- Code injected by live-server -->

<script>

// <![CDATA[ <-- For SVG support

if ('WebSocket' in window) {

(function () {

function refreshCSS() {

var sheets = [].slice.call(document.getElementsByTagName("link"));

var head = document.getElementsByTagName("head")[0];

for (var i = 0; i < sheets.length; ++i) {

var elem = sheets[i];

var parent = elem.parentElement || head;

parent.removeChild(elem);

var rel = elem.rel;

if (elem.href && typeof rel != "string" || rel.length == 0 || rel.toLowerCase() == "stylesheet") {

var url = elem.href.replace(/(&|\?)\_cacheOverride=\d+/, '');

elem.href = url + (url.indexOf('?') >= 0 ? '&' : '?') + '\_cacheOverride=' + (new Date().valueOf());

}

parent.appendChild(elem);

}

}

var protocol = window.location.protocol === 'http:' ? 'ws://' : 'wss://';

var address = protocol + window.location.host + window.location.pathname + '/ws';

var socket = new WebSocket(address);

socket.onmessage = function (msg) {

if (msg.data == 'reload') window.location.reload();

else if (msg.data == 'refreshcss') refreshCSS();

};

if (sessionStorage && !sessionStorage.getItem('IsThisFirstTime\_Log\_From\_LiveServer')) {

console.log('Live reload enabled.');

sessionStorage.setItem('IsThisFirstTime\_Log\_From\_LiveServer', true);

}

})();

}

else {

console.error('Upgrade your browser. This Browser is NOT supported WebSocket for Live-Reloading.');

}

// ]]>

</script>

</body></html>

**Internal and External CSS**

<!DOCTYPE html>

<!-- saved from url=(0041)http://127.0.0.1:5500/Ques3\_CF/index.html -->

<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

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

<title>Internal and External Stylesheets</title>

<!-- Internal Stylesheet -->

<style>

/\* Styles for the first paragraph \*/

#internal-paragraph {

color: blue;

font-family: 'Arial', sans-serif;

font-size: 30px;

}

</style>

<!-- External Stylesheet -->

<link rel="stylesheet" type="text/css" href="./Internal and External Stylesheets\_files/external-styles.css">

</head>

<body bgcolor="Lightyellow">

<!-- First Paragraph with Internal Styles -->

<p id="internal-paragraph">First paragraph collects its styles from the internal stylesheet.</p>

<!-- Second Paragraph with External Styles -->

<p class="external-paragraph">Second paragraph collects its styles from an external stylesheet.</p>

<!-- Code injected by live-server -->

<script>

// <![CDATA[ <-- For SVG support

if ('WebSocket' in window) {

(function () {

function refreshCSS() {

var sheets = [].slice.call(document.getElementsByTagName("link"));

var head = document.getElementsByTagName("head")[0];

for (var i = 0; i < sheets.length; ++i) {

var elem = sheets[i];

var parent = elem.parentElement || head;

parent.removeChild(elem);

var rel = elem.rel;

if (elem.href && typeof rel != "string" || rel.length == 0 || rel.toLowerCase() == "stylesheet") {

var url = elem.href.replace(/(&|\?)\_cacheOverride=\d+/, '');

elem.href = url + (url.indexOf('?') >= 0 ? '&' : '?') + '\_cacheOverride=' + (new Date().valueOf());

}

parent.appendChild(elem);

}

}

var protocol = window.location.protocol === 'http:' ? 'ws://' : 'wss://';

var address = protocol + window.location.host + window.location.pathname + '/ws';

var socket = new WebSocket(address);

socket.onmessage = function (msg) {

if (msg.data == 'reload') window.location.reload();

else if (msg.data == 'refreshcss') refreshCSS();

};

if (sessionStorage && !sessionStorage.getItem('IsThisFirstTime\_Log\_From\_LiveServer')) {

console.log('Live reload enabled.');

sessionStorage.setItem('IsThisFirstTime\_Log\_From\_LiveServer', true);

}

})();

}

else {

console.error('Upgrade your browser. This Browser is NOT supported WebSocket for Live-Reloading.');

}

// ]]>

</script>

</body></html>

**Get post php**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>PHP Form Handling</title>

</head>

<body>

<h2>PHP Form Handling</h2>

<form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

<label for="name">Name:</label>

<input type="text" name="name" required>

<br>

<label for="email">Email:</label>

<input type="email" name="email" required>

<br>

<input type="submit" value="Submit with POST">

</form>

<?php

// Handling form data using POST method

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$name = htmlspecialchars($\_POST["name"]);

$email = htmlspecialchars($\_POST["email"]);

echo "<h3>Form Data Submitted using POST:</h3>";

echo "Name: $name <br>";

echo "Email: $email <br>";

}

?>

<hr>

<form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="get">

<label for="name\_get">Name:</label>

<input type="text" name="name\_get" required>

<br>

<label for="email\_get">Email:</label>

<input type="email" name="email\_get" required>

<br>

<input type="submit" value="Submit with GET">

</form>

<?php

// Handling form data using GET method

if ($\_SERVER["REQUEST\_METHOD"] == "GET") {

$name\_get = htmlspecialchars($\_GET["name\_get"]);

$email\_get = htmlspecialchars($\_GET["email\_get"]);

echo "<h3>Form Data Submitted using GET:</h3>";

echo "Name: $name\_get <br>";

echo "Email: $email\_get <br>";

}

?>

</body>

</html>

**Map concept**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Image Map Example</title>

</head>

<body>

<h2>Click on the image below:</h2>

<img src=https://images.hindustantimes.com/tech/img/2021/02/10/960x540/home-office-5000278\_1920\_1612949547249\_1612949557124.jpg

alt="Clickable Image" usemap="#imageMap">

<map name="imageMap">

<area shape="rect" coords="0,0,50,50" href="convert\_temp.html" alt="Area 1" >

<area shape="circle" coords="100,100,50" href="power\_calc.html" alt="Area 2">

<!-- <div class="bottom-left">Bottom Left</div>

<div class="top-left">Top Left</div> -->

<!-- <area shape="poly" coords="200,0,250,50,200,100" href="page3.html" alt="Area 3"> -->

</map>

</body>

</html>

**Max of 3 nos in php**

<?php

$num1 = readline("Enter the 1st number: ");

$num2 = readline("Enter the 2nd number: ");

$num3 = readline("Enter the 3rd number: ");

echo "Greatest among $num1 $num2 $num3 is " . max($num1, $num2, $num3);

?>

**Power calculator**

<html>

<head>

<title>Power Calculator using JS</title>

</head>

<body>

<h1>Power Calculator</h1>

<input type="number" id="m" placeholder="Enter m">

<input type="number" id="n" placeholder="Enter n">

<button type="button" onclick="findMn()">Find</button>

<div id="result"></div>

<script>

function findMn() {

var m = document.getElementById("m").value;

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

var result = Math.pow(m, n);

document.getElementById("result").innerHTML = result;

}

</script>

</body>

</html>