**Practical:**

1. **Design a simple page using Character formatting i.e. (Heading Tag (H1 to H6), Paragraph Tag, Line Break, Horizontal Rule, Text Formatting (B, I, U, SMALL, BIG, EM, SUB, SUP, PRE, STRIKE, CENTER and BLOCKQUOTE) and also use FONT tag and Attributes (COLOR, FACE and SIZE) using HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Character Formatting</title>

</head>

<body>

<h1>This is a Heading (H1)</h1>

<h2>This is a Heading (H2)</h2>

<h3>This is a Heading (H3)</h3>

<h4>This is a Heading (H4)</h4>

<h5>This is a Heading (H5)</h5>

<h6>This is a Heading (H6)</h6>

<p>This is a paragraph. <b>This text is bold.</b> <i>This text is italic.</i> <u>This text is underlined.</u></p>

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

<p><big>This text is big.</big></p>

<p><em>This text is emphasized.</em></p>

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

<pre>This is preformatted text.</pre>

<p><strike>This text is struck through.</strike></p>

<p><center>This text is centered.</center></p>

<blockquote cite="https://www.example.com">This is a blockquote.</blockquote>

<hr>

<font color="blue" face="Arial" size="5">This is text with font color, face, and size.</font>

</body>

</html>

1. **Demonstrate the use of different LIST and their attributes using HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Lists in HTML</title>

</head>

<body>

<!-- Ordered List -->

<ol>

<li>Item 1</li>

<li>Item 2</li>

<li>Item 3</li>

</ol>

<!-- Unordered List -->

<ul>

<li>Apple</li>

<li>Banana</li>

<li>Orange</li>

</ul>

<!-- Definition List -->

<dl>

<dt>HTML</dt>

<dd>Hypertext Markup Language</dd>

<dt>CSS</dt>

<dd>Cascading Style Sheets</dd>

</dl>

</body>

</html>

1. **Demonstrate the use of TABLE (use ALIGN, CELLSPACING, CELLPADDING, BORDER, WIDTH, BGCOLOR, COLSPAN, ROWSPAN, CAPTION, CENTER attributes) using HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Table in HTML</title>

</head>

<body>

<table align="center" cellspacing="5" cellpadding="10" border="1" width="80%" bgcolor="#f2f2f2">

<caption>Student Information</caption>

<tr>

<th>Name</th>

<th>Age</th>

<th>Grade</th>

</tr>

<tr>

<td>John</td>

<td>18</td>

<td>A</td>

</tr>

<tr>

<td>Jane</td>

<td>19</td>

<td>B</td>

</tr>

<tr>

<td>Mike</td>

<td>20</td>

<td>A</td>

</tr>

</table>

</body>

</html>

1. **Demonstrate the use of HYPERLINK (use internal link, local link, global link and image link) in HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Hyperlink in HTML</title>

</head>

<body>

<!-- Internal Link -->

<a href="#section1">Go to Section 1</a>

<hr>

<!-- Local Link -->

<a href="localpage.html">Go to Local Page</a>

<hr>

<!-- Global Link -->

<a href="https://www.example.com" target="\_blank">Visit Example Website</a>

<hr>

<!-- Image Link -->

<a href="https://www.example.com">

<img src="image.jpg" alt="Example Image" width="100" height="100">

</a>

</body>

</html>

1. **Create a page containing 3 FRAMES with 1st frame covering 40% of the screen (vertical coverage) and remaining screen should be horizontally divided into 2 frames (40% and 60%). The 1st frame should contain a banner image and 2nd frame contains the links (i.e. link1 and link2) and the links of these items must be opened in the 3 rd frame. Use FRAMESET and FRAME tags of HTML to create the pages.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Frameset Example</title>

</head>

<body>

<frameset rows="40%,\*" cols="50%,50%">

<frame src="banner.jpg" name="banner">

<frameset rows="50%,50%">

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

<frame src="blank.html" name="content">

</frameset>

</frameset>

</body>

</html>

1. **Design a FORM containing username, password, radio button, checkbox, drop-down menu, textarea (for comment section), submit button, and reset button using HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Form Example</title>

</head>

<body>

<form action="/submit" method="post">

<label for="username">Username:</label>

<input type="text" id="username" name="username"><br><br>

<label for="password">Password:</label>

<input type="password" id="password" name="password"><br><br>

<label for="gender">Gender:</label>

<input type="radio" id="male" name="gender" value="male"> Male

<input type="radio" id="female" name="gender" value="female"> Female<br><br>

<label for="newsletter">Subscribe to newsletter:</label>

<input type="checkbox" id="newsletter" name="newsletter"><br><br>

<label for="country">Country:</label>

<select id="country" name="country">

<option value="usa">USA</option>

<option value="uk">UK</option>

<option value="canada">Canada</option>

</select><br><br>

<label for="comments">Comments:</label><br>

<textarea id="comments" name="comments" rows="4" cols="50"></textarea><br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

1. **Demonstrate the use of different types of CSS in HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>CSS Types Example</title>

<style>

/\* Internal CSS \*/

body {

background-color: lightblue;

}

h1 {

color: red;

}

</style>

<link rel="stylesheet" type="text/css" href="styles.css"> <!-- External CSS -->

</head>

<body>

<h1>This is a heading with internal CSS styling.</h1>

</body>

</html>

1. **Demonstrate the use of class and div tags in HTML.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Class and Div Example</title>

<style>

.container {

width: 80%;

margin: auto;

}

.content {

background-color: lightgray;

padding: 20px;

}

</style>

</head>

<body>

<div class="container">

<h1>Content inside a div with class</h1>

<div class="content">

<p>This is some content inside a div with class="content".</p>

</div>

</div>

</body>

</html>

1. **Demonstrate the use of JavaScript code to the html page.**

Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>JavaScript Example</title>

<script>

function displayMessage() {

alert("Hello, this is a message from JavaScript!");

}

</script>

</head>

<body>

<button onclick="displayMessage()">Click Me</button>

</body>

</html>

1. **Develop a simple web site with different simple web pages.**

Code:

* **Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>My Website</title>

</head>

<body>

<h1>Welcome to My Website!</h1>

<p><a href="about.html">About Us</a></p>

<p><a href="contact.html">Contact Us</a></p>

</body>

</html>

* **about.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>About Us</title>

</head>

<body>

<h1>About Us</h1>

<p>This is the About Us page.</p>

</body>

</html>

* **contact.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Contact Us</title>

</head>

<body>

<h1>Contact Us</h1>

<p>This is the Contact Us page.</p>

</body>

</html>