

Getting started with HTML and Emmet Assignment

1. Write a simple program in HTML that displays the heading "I am happy to Learn Web Development" on the web browser.

Ans:

```
<!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>1</title>
</head>
<body>
  <h1>I am happy to Learn Web Development</h1>
</body>
</html>
```

2. Write a simple program in HTML, the webpage must contain the heading "Comments" and below the heading add some information about comments. The webpage must be rendered on the web browser as below image.

Ans:

```
<!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>2</title>
</head>
<body>
  <h1>Heading</h1>
  <p>
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Autem ad rerum
    totam ut veritatis optio obcaecati doloremque illo provident, omnis esse sint
    cumque tempore, quod tenetur quos molestias est delectus.
    Sint, deleniti. Possimus amet modi earum quia. Obcaecati amet sed veniam
    sequi similique, voluptatibus reprehenderit deserunt, quaerat adipisci
    delectus quas quis facilis doloremque libero natus voluptates excepturi dolore
    repellat nemo.
  </p>
</body>
</html>
```

Iusto, minima autem similique porro et maiores adipisci magni esse beatae eveniet exercitationem, consequuntur recusandae, pariaturs sequi. Natus voluptas iure nam iste nobis debitis, a possimus in animi reprehenderit doloremque.

Temporibus labore suscipit, tempora, molestiae, atque recusandae vero officiis nobis distinctio minima est possimus alias! Exercitationem corrupti sed, esse modi voluptatum explicabo aliquid reiciendis culpa deleniti repudiandae, in, minima ex?

Mollitia, ipsam cupiditate sequi numquam doloremque aliquam ipsum optio deserunt harum asperiores velit, quis esse praesentium nam expedita, iure quos temporibus soluta similique inventore quae explicabo consequuntur rerum dolorum! Aspernatur.

Repellendus consectetur, eligendi, in quos minus, cum ex quibusdam rem distinctio at odit odio. Eius, error ipsa consectetur temporibus sunt dicta harum nihil molestiae et officiis nemo vero rem repudiandae!

Quasi eaque dolor praesentium, deleniti sapiente voluptate nulla a delectus quisquam, saepe sit assumenda dicta voluptatem eligendi earum odio?

Dignissimos officiis est dolores sit natus voluptatum doloribus id et! Fuga!

Enim aspernatur accusamus voluptatem aperiam dignissimos quidem rerum atque, sint distinctio laborum cum nemo corrupti quaerat placeat, culpa eligendi asperiores. Nisi labore repellendus tenetur minima nobis hic adipisci explicabo ullam?

Dicta pariaturs velit hic dolor? Eaque eum reprehenderit debitis? A quo, recusandae quisquam eveniet minus sit consequatur quam ut est rerum id aliquam exercitationem eaque nihil deserunt! Quibusdam, sit aspernatur.

Eum corporis at ut, modi est minima quod debitis deleniti, consequuntur eligendi aperiam illo. Saepe quasi praesentium vero obcaecati autem aliquam sunt ipsum reiciendis sapiente illum, odit ullam, nobis nostrum?

</p>
</body>
</html>

3. Write a short note on tags, elements, and attributes along with relevant examples.

Ans:

Tags

Tags are used to define an element in HTML, example <h1> Tags </h1> in above example h1 is tag used define an element heading, some tags have opening and closing tag but some of the tags are self closing tags

element

Element represent basic components of HTML like headings, paragraph, list, table

e.g <h1> Tags </h1> , the opening and closing tag and content between it are called element in HTML

attributes

attributes extend element bahavior, provide information about the element.

id is attributes to give unique property element and to style it differently.

4. List out any 3 tags we learned in this module and give a brief explanation about the tags.

Ans:

1)h1 to h6

h1 to h6 tags used to define headings

2)p

p tag use for define the paragraph

3)table

table used create table in HTML

5. What is emmet? List some of the advantages emmet offers?

Ans:

Emmet is shorthand abbreviation syntax.

Emmet is used for write HTML code faster.

we can increase productivity for writing codes like ! used to create html boiler plate, we need type '!' then it will give boiler plate instantly.

We can do our job with few keywords, it will save time while writing code.

6. Using emmet create another webpage similar to questions 1 and 2.

Ans:

```
<!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>6</title>
</head>
<body>
  <h1>I am happy to Learn Web Development</h1>
  <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Similique vitae
cumque tempore eum neque laudantium id veritatis reiciendis nostrum sequi,
voluptatum error corrupti deleniti ratione, maiores, maxime cum laborum
accusantium!

  Repudiandae illum neque laudantium, similique molestias ab id doloribus sunt
doloremque adipisci, non temporibus esse nam fugiat ad consectetur sit
praesentium iure veritatis ut architecto? Quos accusantium earum saepe
voluptatem.

  Soluta culpa error sed officia temporibus! Omnis ipsum et quis at eius
dolore consectetur nobis nesciunt eos iure velit porro officiis tenetur
distinctio dignissimos obcaecati voluptatum harum, aliquid, quidem ipsam?

  Incidunt eaque cum aperiam possimus labore eius consectetur error autem,
laborum beatae nihil corrupti repellendus ipsam omnis perspiciatis tempora,
dolorum exercitationem blanditiis quisquam illo sit aut fuga soluta. Natus,
officiis!

  Praesentium deleniti dignissimos nisi exercitationem quasi eveniet corrupti
reiciendis! Incidunt earum corporis placeat libero at quisquam, dicta atque
qui expedita illum et odio velit dolorem maiores labore suscipit natus
aliquid.

  Ullam harum eius consectetur facilis corrupti iusto itaque, sequi cumque
necessitatibus commodi corporis ex odit aliquam molestiae? Quaerat aliquam
nesciunt quas repellendus voluptatem, reprehenderit, nisi modi omnis odio
labore esse.

  Saepe repellat illum suscipit quibusdam. Exercitationem mollitia minima
commodi laborum quod rerum culpa architecto, optio a blanditiis porro, aperiam
voluptas officiis deserunt aliquid harum, soluta placeat. Adipisci, illo.
Optio, dolores.

  Corporis voluptatum iusto exercitationem, eligendi, quod dolorum nihil in
repudiandae numquam, libero placeat dolor officia reiciendis velit fuga totam
non dolore ipsam. Ipsum dicta labore similique minus saepe amet inventore?

  Facilis consequuntur sapiente magnam quia. Iure sapiente ea tenetur sed aut
minima rerum nulla modi mollitia. Repudiandae, tenetur ex! Temporibus,
molestiae accusamus! Voluptatem, sit modi aliquid incidunt rerum iste quae.
```

```
Nisi sed suscipit assumenda est eum numquam voluptatem cupiditate cum  
voluptas, nam quibusdam, iure facere. Dolorum libero error cumque itaque  
deserunt quae, ratione harum nam, neque, accusantium fugit eius quod.</p>  
</body>  
</html>
```

7. Explain in brief about the nesting operators in emmet.

Ans:

Nesting operators are used to position abbreviation elements inside generated tree: whether it should be placed inside or near the context element.

1) Child: >

you can use > operator to nest element inside each other

div>h1>p>

result:

```
<div>  
  <h1>  
    <p></p>  
  </h1>  
</div>
```

2) sibling: +

use + operator to place elements near each other, on the same level

div+p

result:

```
<div></div>  
<p></p>
```

3) Multiplication : *

With * operator you can define how many times element should be outputted

`ol>li*5`

result:

```
<ol>
  <li></li>
  <li></li>
  <li></li>
  <li></li>
  <li></li>
</ol>
```

4) Grouping: ()

Parentheses are used by Emmets' power users for grouping subtrees in complex abbreviations:

`div>(ol>li*2)+footer>p`

result:

```
<div>
  <ol>
    <li></li>
    <li></li>
  </ol>
  <footer>
    <p></p>
  </footer>
</div>
```

8. Build a simple webpage using any 2 emmet abbreviations and above the elements mention the emmet abbreviation using HTML comments. The below image is for reference.

Ans:

```
<!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>Getting started with HTML and Emmet Assignment</title>
</head>
<body>
  <!-- Emmet: h1{India's Most Loved Educational Platform}+p{with Physics Wallah, Begin your journey to success.} -->
  <h1>India's Most Loved Educational Platform</h1>
  <p>with Physics Wallah, Begin your journey to success.</p>
</body>
</html>
```

9. What are self-closing tags? Write a brief note on meta tags.

Ans:

self closing tags are kind of tags that dont have any closing tag which means it does not have seperate closing tag

example, img, br, link

meta tags are HTML tags used to provide additional information about a page to search engines and other clients and they place in the head section in the html code

10. What are global attributes? List any 5 global attributes.

Ans:

Global attributes are attributes common to all HTML elements; they can be used on all elements, though they may have no effect on some elements.

examples: class, id, style, title, hidden

Core HTML Assignment Questions

11. Build a simple webpage that displays text as shown in the below image.

Ans:

```
<!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>Display Text</title>
</head>
<body>
  <p><strong>This text will be bolded</strong></p>
  <p><em>This text will be italic</em></p>
  <p><u>This text will be underlined</u></p>
  <p style="background-color: #ffff00; display: inline-block;">This text will
be highlighted</p>
  <p>This is normal text <sup>This will be super scripted</sup> This is normal
again</p>
  <p>This is normal text <sub>This text will be subscripted</sub></p>
  <p>Normal Text <span style="font-size: 12px;">Small Text</span></p>
  <s>This text will be deleted</s>
</body>
</html>
```

12. Build a simple webpage that displays the table as shown below.

Ans:

```
<!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>table1</title>
</head>
<body>
  <table border="1px">
    <thead>
      <tr>
        <th>SI NO.</th>
        <th>Name</th>
      </tr>
    </thead>
  </table>
</body>
</html>
```



```
<th>Course</th>
<th>Email</th>
</tr>
</thead>

<tbody>
<tr>
<td>1</td>
<td>Aarav Sharma</td>
<td>FSWD</td>
<td>aarav.sharma@gmail.com</td>
</tr>

<tr>
<td>2</td>
<td>Diya Patel</td>
<td>FSDS</td>
<td>diya.patel@gmail.com</td>
</tr>

<tr>
<td>3</td>
<td>Aryan Singh</td>
<td>DSA with JAVA</td>
<td>aryan.singh@gmail.com</td>
</tr>

<tr>
<td>4</td>
<td>Avni Gupta</td>
<td>FSWD</td>
<td>avni.gupta@gmail.com</td>
</tr>

<tr>
<td>5</td>
<td>Rohan Mehta</td>
<td>FSWD</td>
<td>rohan.mehta@gmail.com</td>
</tr>

<tr>
<td>6</td>
<td>prisha Verma</td>
<td>DSA with JAVA</td>
<td>prisha.verama@gmail.com</td>
</tr>
```

```

<tr>
  <td>7</td>
  <td>Arnav Choudhary</td>
  <td>FSWD</td>
  <td>arnav.choudhary@gmail.com</td>
</tr>

<tr>
  <td>8</td>
  <td>Ishaan Patel</td>
  <td>FSDS</td>
  <td>ishaan.patel@gmail.com</td>
</tr>

<tr>
  <td>9</td>
  <td>Siya Singh</td>
  <td>DSA with JAVA</td>
  <td>siya.singh@gmail.com</td>
</tr>
</tbody>
</table>
</body>
</html>

```

13. Build a simple webpage that displays the table shown below.

Ans:

```

<!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>table2</title>
</head>
<body>
  <table border="1px">
    <tr>
      <td>Product</td>
      <td colspan="2">Flavours & Quantity</td>
    </tr>

    <tr>
      <td colspan="3">Dairy</td>
    </tr>

```

```
<tr>
  <td rowspan="3">Ice Creams</td>
  <td>Vanila</td>
  <td>500g</td>
</tr>

<tr>
  <td>Chocolate</td>
  <td>250g</td>
</tr>

<tr>
  <td>Butter Scotch</td>
  <td>1 kg</td>
</tr>

<tr>
  <td colspan="3">Beverages</td>
</tr>

<tr>
  <td rowspan="3">Soda</td>
  <td>Cola</td>
  <td>0.5 L</td>
</tr>

<tr>
  <td>Orange</td>
  <td>1 L</td>
</tr>

<tr>
  <td>Lime</td>
  <td>2 L</td>
</tr>

</table>
</body>
</html>
```

14. Build a simple blog web page with 3 pages home, web development, and web design. Each page must contain hyperlinks to other pages in the top, a heading of the page topic and a paragraph of information. For home page you can add some information about yourself.

Ans:

```
<!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>Home</title>
</head>
<body>
  <h1>Home</h1>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatibus eligendi expedita cupiditate velit perferendis tenetur accusamus, nam laudantium nisi voluptate architecto voluptates praesentium blanditiis voluptas at delectus excepturi, ipsum enim.
  Voluptatum reiciendis quis recusandae perspiciatis minima commodi consequuntur placeat fugit, et repellat accusantium. Blanditiis in veritatis repellendus, recusandae rem aliquam nam commodi! Recusandae vitae, quae dolorem vero atque eveniet eum.</p>
  <p>Created by <strong>Mayuresh Nagvekar</strong></p>
  <p>Do checkout below pages</p>
  <a href="web_development.html">Web Development</a> <br/> <br/>
  <a href="web_design.html">Web Design</a>

</body>
</html>
```

```
<!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>Web Design</title>
</head>
<body>
  <h1>Web Design</h1>
```

```

    <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laboriosam
    eaque, ipsam, impedit temporibus deleniti vitae soluta cum sequi architecto
    dolores voluptates porro accusantium possimus doloremque, harum at ullam
    sapiente tempore.</p>

    <p>Do checkout below pages</p>
    <a href="4.html">Home</a> <br/><br/>
    <a href="web_development.html">Web Development</a>
</body>
</html>

```

```

<!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>Web Development</title>
</head>
<body>
  <h1>Web Development</h1>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Eum sequi velit,
  obcaecati blanditiis id animi doloribus minus earum, ut ea porro odio
  reiciendis hic laboriosam.</p>

  <p>Do checkout below pages</p>
  <a href="4.html">Home</a> <br/><br/>
  <a href="web_design.html">Web Design</a>
</body>
</html>

```

15. Build a simple webpage that helps users navigate different web development-related websites. Note: On clicking the hyperlink the webpages should open in a new tab. Below is a reference image.

Ans:

```

<!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>Navigation</title>
</head>
<body>

```

```

<h1>Navigate Me:</h1>

<p>Take me to <a href="http://pwskills.com" target="_blank" rel="noopener
noreferrer">PW Skills</a> to buy a course</p>

<p>Take me to <a href="http://developer.mozilla.org/en-US/" target="_blank"
rel="noopener noreferrer">MDN docs</a> to know more about Web Development.</p>

<p>Take me to <a href="http://lab.pwskills.com" target="_blank"
rel="noopener noreferrer">PW Skills Lab</a> to pratice live coding.</p>
</body>
</html>

```

16.Create an ordered list of HTML tags. Each list item must include the tag name and some information about the tag.

Ans:

```

<!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>ordered list</title>
</head>
<body>
  <ol>
    <li>
      <strong>h1</strong>
      <p>it is use to give heading on website </P>
    </li>
    <li>
      <strong>p</strong>
      <p>it is used to give paragraph on website</P>
    </li>
    <li>
      <strong>table</strong>
      <p>it is used to draw or insert table on web pages</P>
    </li>
  </ol>
</body>
</html>

```

17. Create an unordered list of 5 programming quotes, using the `ul` tag.

Ans:

```
<!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>unodered list</title>
</head>
<body>
  <h1>Programming Quotes</h1>
  <ul>
    <li>Programming is the art of algorithm design and the craft of debugging
errant code.</li>
    <li>Experience is the name everyone gives to their mistakes.</li>
    <li>Confusion is part of programming. </li>
    <li>No matter which field of work you want to go in, it is of great
importance to learn at least one programming language</li>
    <li>Programming is learned by writing programs.</li>
  </ul>
</body>
</html>
```

18. Create a description list of full stack web development tech stack, using the `dl` tag. Each term should be a tech stack name and each description should be a brief explanation of what the tech stack is used for.

Ans:

```
<!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>tech stack</title>
</head>
<body>
  <h1>MERN stack</h1>
```

```

<dl>
  <dt>Mongo DB</dt>
  <dd>Mongo DB is used for store and retrive data</dd>
  <dt>Express</dt>
  <dd>Express used in backend</dd>
  <dt>React</dt>
  <dd>React used for creating front end of web applications</dd>
  <dt>Node JS</dt>
  <dd>Node JS used to create backend of the web applications</dd>
</dl>
</body>
</html>

```

19. Create an ordered list of the most common text formatting tags in HTML. Within each list item, use an unordered list to list the specific use cases and best practices for that tag.

Ans:

```

<!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>ordered list</title>
</head>
<body>
  <ol>
    <h1>Text Formatting Tags</h1>
    <li>strong Tag
      <ul>
        <li>It is used bold text in a semantic manner</li>
      </ul>
    </li>

    <li>u Tag
      <ul>
        <li>It is used underlined the text</li>
      </ul>
    </li>

    <li>em Tag
      <ul>
        <li>Increased importance of text from the other text</li>
      </ul>
    </li>
  </ol>

```



```

    <li>i
      <ul>
        <li>It is used italic the text</li>
      </ul>
    </li>

  </ol>
</body>
</html>

```

20. Create an ordered list of the full stack web development tech stack HTML, CSS, and JS. For each tech stack, create a table that lists the tech stack name, its primary use cases, and some key features or benefits. Below is a reference image.

Ans:

```

<!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>10th assignment</title>
</head>
<body>
  <ol>
    <li>
      <h2>HTML</h2>
      <table border="1">
        <tr>
          <th>Primary Use Cases</th>
          <th>Key Features/Benefits</th>
        </tr>
        <tr>
          <td>Building the structure of web pages</td>
          <td>
            <ul>
              <li>Simple and easy to learn</li>
              <li>Compatible with all web browsers</li>
              <li>Allows for semantic markup</li>
            </ul>
          </td>
        </tr>
      </table>
    </li>

```

```

<li>
  <h2>CSS</h2>
  <table border="1">
    <tr>
      <th>Primary Use Cases</th>
      <th>Key Features/Benefits</th>
    <tr>
      <td>Designing the web pages</td>
      <td>
        <ul>
          <li>Easy Formatting Changes</li>
          <li>Quicker Development Time</li>
          <li>help to build responsive design</li>
        </ul>
      </td>
    </tr>
  </table>
</li>

<li>
  <h2>JavaScript</h2>
  <table border="1">
    <tr>
      <th>Primary Use Cases</th>
      <th>Key Features/Benefits</th>
    <tr>
      <td>Manipulating Web Pages</td>
      <td>
        <ul>
          <li>Object oriented programming language</li>
          <li>Designed to reponse user actions and events</li>
          <li>Rich Library supports</li>
        </ul>
      </td>
    </tr>
  </table>
</li>
</ol>

</body>
</html>

```