HYPERTEXT MARKUP LANGUAGE – NOTES CREATED BY,

VALLIYAPPAN PERIYAKARUPPAN, B.E

VAIGAI COLLEGE OF ENGINEERING,

MADURAI.

HYPER TEXT MARKUP LANGUAGE

HTML - INVENTED BY TIM-BERNER'S LEE - 1991 HTML1 and

WWW - World Wide Web - 1989.

CURRENT VERSION OF HTML 5. RELEASED IN 2014.

HTML IS A **STRUCTURE OF THE WEBPAGE** AND USED CREATE A WEBSITES.

WEBSITE – It is collection of websites comes under single domain name is called as "Website".

HTML Tells the web browser to how to display a content.

HYPERTEXT – Machine Readable Text Format

MARKUP – Structure of the Webpage

HTML consists of TAGS, ELEMENTS, ATTRIBUTES.

TYPES OF WEBSITES:

• STATIC – READ ONLY WEBSITE (HTML, CSS, JS)

EX: PORTFOLIO

• **DYNAMIC** – READ, UPDATE, DELETE, CREATE (HTML, CSS, JS, PHP, MYSQL)

EX: AMAZON, FACEBOOK

EXTENSION OF HTML VERSION 5:

- FILENAME.html
- FILENAME.htm

REQUIREMENTS TO LEARN HTML:

- WEB BROWSER (Chrome, Firefox, etc.)
- TEXT EDITOR / NOTEPAD (VS Code, Sublime Text 3)

TAGS EXPLANATION:

< left angle bracket, > right angle bracket

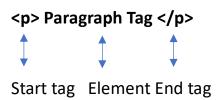
< html> - Starting Tag

</html> - Ending Tag always end with back slash symbol.

ELEMENT EXP:

Whatever written between the two tags is called as Elements.

Ex:



ATTRIBUTES AND VALUES:

Describe the characteristics of HTML.

Ex:



BASIC STRUCTURE OF HTML:

```
<!DOCTYPE html>
<html>
<head>
     <title> Webpage Tab Name </title>
</head>
<body>
     <h1> Heading 1 </h1>
      Paragraph Tag 
     <!-- Comment Line In HTML -->
</body>
</html>
```

COMMENT LINE IN HTML:

<!--COMMENT LINE IN HTML -->

WEBSITE CATEGORIES:

- 1. Business Website
- 2. Landing Page
- 3. E-Commerce
- 4. Portfolio
- 5. Educational Institute
- 6. Social Media
- 7. Entertainment Website
- 8. Video Streaming
- 9. Government Websites
- 10. Search Engine and so on.

HTMT TAGS AND IT'S USES WITH ATTRIBUTES: (A TO Z)

1. <!DOCTYPE html>

Exp:

Document type and version of HTML

Ex:

<!DOCTYPE html> ---- First line in HTML file

2. <a>

Exp:

Anchor tag is used for defines a hyperlink

Ex:

<!DOCTYPE html>

<html>

<head>

<title> Anchor Tag </title>

```
</head>
<body>
<a href="https://www.google.com">Visit
Google.com!</a>
</body>
</html>
```

3. <abbr>

Exp:

 Abbreviation tag is used for defines an abbreviation or acronym.

```
Ex:

<!DOCTYPE html>

<html>

<head>

<title> Abbreviation Tag </title>

</head>

<body>

The <abbr title="HyperText Markup Language>HTML </abbr>was founded in 1991 by TIM BERNER'S LEE.

</body>

</html>
```

4. <address>

Exp:

Address tag is used for defines the contact information

```
Ex:
<!DOCTYPE html>
<html>
<head>
<title> Address Tag </title>
</head>
<body>
</body>
<address>
    P. Valliyappan, <br>
    Madurai, <br>
    Tamilnadu.
</address>
</html>
```

5. <area>

Exp:

Area tag defines an area inside an image map tag.

Ex:

```
<!DOCTYPE html>
  <html>
  <head>
  <title> Area Tag </title>
  </head>
  <body>
  <img src="coffee.jpg" alt="coffee" usemap="#pic" widt</pre>
  h="400" height="300">
  <map name="pic">
    <area shape="rect" coords="34,44,270,350" alt="Comp</pre>
  uter" href="computer.htm">
    </map>
  </body>
  </html>
6. <article>
  Exp:
       Article tag specifies, self -contained content
  Fx:
  <article>
  <h2>Google Chrome</h2>
  Google Chrome is a web browser developed by
  Google, released in 2008. Chrome is the world's most
  popular web browser today!
  </article>
  <article>
  <h2>Mozilla Firefox</h2>
  Mozilla Firefox is an open-source web browser
```

developed by Mozilla. Firefox has been the second

```
most popular web browser since January, 2018.
</article>
<article>
<h2>Microsoft Edge</h2>
Microsoft Edge is a web browser developed by
Microsoft, released in 2015. Microsoft Edge replaced
Internet Explorer.
</article>
```

7. <aside>

Exp:

Aside tag defines an some content aside from the content it is placed in.

```
Ex:
```

```
<aside>
<h4>Valliyappan HTML NOTES </h4>
HYPER TEXT MARKUP LANGUAGE NOTES ARE HERE DOWNLOAD
IT. 
</aside>
```

8. <audio>

Exp:

Audio tag is used for insert the audio content into the webpage.

Ex:

```
<audio controls width = "200px" height="100px">
<source src="tamil.mp3" type="audio/mp3">
</audio>
</body>
</html>
```


10. <base> Exp: The Base tag specifies the base URL. Ex: <!DOCTYPE html>

```
<html>
<head>
<title>Base Tag </title>
<base href=https://www.google.com
target=_blank>
<head>
<body>
<h1> Valliyappan HTML Notes</h1>
</body>
</html>
```

12. <bdo>

Exp:

13. <blockquote>

Exp:

The Blockquote tag specifies a section that is quoted from another source.

Ex:

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

</blockquote>

Try it Yourself »

14. <body>

```
Exp:
           Body Tag is used to whatever content tag used
  in between body tag.
       Ex:
      <!DOCTYPE html>
      <html>
       <head>
           <title>Break Tag </title>
       <head>
       <body>
       </body>
  </html>
15.
       <br>
       Exp:
           Break tag is used for line break;
       Ex:
       <body>
       Hello Good Morning <br>Valliyappan
       Periyakaruppan 
      </body>
16.
       Exp:
           Button tag is used for to create a clickable
       button using html tag.
       Ex:
      <!DOCTYPE html>
```

```
<html>
<head>
<title>Button Tag </title>
<head>
<body>
<button type="button"> Click Me Bro
</button>
</body>
</html>
```

17. <canvas>

Exp:

The canvas tag used to draw graphics via scripting (usually JavaScript).

18. <caption>

Exp:

The Caption tag is used to table caption or name of table.

Ex:

<!DOCTYPE html>

<html>

<head>

<title>Caption Tag</title>

</head>

<body>

```
<caption>
          FrontEnd Development Course
       </caption>
     <thead>
        Courses
          Duration 
       </thead>
     HTML 
          1 WEEK 
       CSS
          1 WEEK 
       <tfoot>
       ENROLL THE COURSE 
       </tfoot>
  </body>
</html>
```

19. <cite>

Exp:

The cite tag defines the title of a creative work.

When author name is not there.

Ex:

The <cite>HTML</cite>notes created in 2023.

20. <code>

Exp:

The code tag is used to define a piece of computer code. Monospace font default.

Ex:

The HTML <code>Button</code> tag defines clickable button.

21. <col>

Exp:

The col tag specifies column properties for each column with a colgroup element.

Ex:

<colgroup>

<col span="2" style="background-color:red">

<col style="background-color:yellow">

</colgroup>

22. <colgroup>

Exp:

The colgroup tag is used for group column stored within a element.

Ex:

Checkout the Col tag.

23. <data>

Exp:

The data tag is used to add a machine readable translation of a given content.

Ex:

ul>

<data value="17">HTML</data>

<data value="18">CSS</data>

<data value="19">JS</data>

24. <datalist>

Exp:

The datalist tag specifies the pre-defined option for an input element.

Ex:

label for="browser">Choose your browser from the
list:</label>
<input list="browsers" name="browser" id="browser"</pre>

```
">

<datalist id="browsers">
    <option value="Edge">
     <option value="Firefox">
     <option value="Chrome">
      <option value="Opera">
      <option value="Safari">
</datalist>
```

25. <dd>

Exp:

The dd tag is used to describe a term/name in description list dl.

Ex:

Checkout the dl tag.

26.

Exp:

The del tag defines an delete with line-through or strike In a selected content.

Ex:

THIS IS HTML COURSE NOT CSS

27. <details>

Exp:

The details tag used to hide something when you click the details button it'll visible.

Ex:

```
<details>
<summary> HTML NOTES </summary>
<h4> HYPER TEXT MARKUP LANGUAGE </h4>
</details>
```

28. <dfn>

Exp:

The dfn tag defines definition element.

Ex:

The<dfn>HTML</dfn>is the standard markup language for creating web page.

29. <dialog>

Exp:

The dialog tag is used to create a dialog box or sub window in a document.

Ex:

<dialog open> This is an open dialog
window</dialog>

30. <div>

Exp:

The div tag used to separate part of the content in a document.

Ex:

<body>

31. <dl>

Exp:

The dl tag is used to create description list.

Ex:

<dl>

<dt>HTML</dt>

<dd>Structure of the webpage</dd>

<dd>Used to Create the webpage </dd>

<dd> Basically html is a markup language</dd>

</dl>

32. <dt>

Exp:

The dt tag defines an description term .

Ex:

Checkout dl tag.

33.

Exp:

The em tag defines an emphasized text. The content displayed in italic.

Ex:

This notes created by Valliyappan

34. <embed>

Exp:

The embed tag defines a container for an external resources.

Ex:

<embed type="text/html src="link or path"
width="300px" height="300px">

35. <fieldset>

Exp:

The fielset tag is used to group related elements in a form.

Ex:

Checkout the table element.

36. <figcaption>

Exp:

The figcaption tag defines a caption for a <figure> tag.

Ex:

Checkout the Figure tag.

37. <figure>

Exp:

The figure tag specifies self-contained content, like diagrams, photos, code listings, etc.

Ex:

<figure>

<figcaption> figure caption </figcaption>

</figure>

38. <footer>

Exp:

The footer tag defines an footer part of the document. Like copyrights, contact etc.

Ex:

<body>

<header> </header>

<section> </section>

<footer> </footer>

39. <form>

Exp:

The form tag used for create form into the document / webpage.

Ex:

<form>

<fieldset>

<legend> Personal Details </legend>

<label for="fname">First Name:</label>

<input id="fname" type="text">

<legend> Personal Details </legend>

<label for="Iname">Last Name:</label>

<input id="Iname" type="text">

<legend> Personal Details </legend>

<label for="mail">Email Id: </label>

<input id="mail" type="email">

</fieldset>

</form>

40. <h1>

Exp:

H1 tag is used heading tag largest heading in html

Ex:

<body>

<h1>Heading 1 </h1>

<h2> Heading 2</h2>

<h3> Heading 3</h3>

<h4> Heading 4</h4>

<h5> Heading 5</h5>

<h6> Heading 6 </h6>

- 41. <h2>
- 42. <h3>
- 43. <h4>
- 44. <h5>
- 45. <h6>

Exp:

H6 is smallest heading

Ex: check out h1 tag

46. <head>

Exp:

Head used for link CSS, JavaScript and other media link to add meta data SEO function .

Ex:

Checkout the <!DOCTYPE html> tag.

47. <header>

Exp:

The header tag defines header part the document like navigation bar logo and etc.

```
Ex:
       <body>
       <header> </header>
       <section> </section>
       <footer> </footer>
       </body>
48.
       <hr>
       Exp:
       The hr tag defines an horizontal line.
       Ex:
        some content 
       <hr>
        some content 
49.
       <html>
       Exp:
       The html tag defines html document.
       Ex:
       Check out <!DOCTYPE html>
50.
       <i>>
       Exp:
       The I tag defines an italic font text.
```

Ex:

The course notes created by <i> Valliyappan </i>

51. <iframe>

Exp:

Iframe tag used for embed something from another sources like youtube video , map etc.

Ex:

<iframe src= "path or link">

</iframe>

52.

Exp:

The img tag used for insert the image into our webpage.

Ex:

53. <input>

Exp:

The input element used to insert somethings into form tag. Like text, password, email, number, range.

Ex:

Check out the Form Element.

54. <ins>

Exp:

The ins tag defines a text that has been inserted into a document. With usually underlined text.

Ex:

This Course name is <ins> HTML </ins>

55. <kbd>

Exp:

The kbd tag defines an keyboard input. Default monospace font.

Ex:

press <kbd> ctrl </kbd> + <kbd> c </kbd> to copy text

56. < label>

Exp:

The label tag used for to create a name for input field.

Ex:

Check out Form Element.

57. < legend >

Exp:

The legend tag defines a caption for the fieldset element.

Ex:

Checkout the Form Element.

58. >

Exp:

Li tag is used for list the content.

```
HTMLCSS JavaScript
```

59. k>

Exp:

The link tag used for , to insert a media link, css files, etc.

Ex:

<head>

<link rel="stylesheet" href="path or link"</pre>

type=text/css>

</head>

60. <main>

Exp:

The main tag specifies the main content of a document.

Ex:

<main>

<article>

</article>

</main>

61. <map>

Exp:

The map tag used to define an image map.

Ex:

Check out area element tag.

62. <mark>

Exp:

The mark used for highlight the text.

Ex:

This course was created by <mark> Valliyappan

</mark>

63. <meta>

Exp:

The meta tag defines metadata about html document. Like keywords, author, page description, viewport etc.

Ex:

```
<meta name="keywords"
content="html,html5,hypertext markup language">
<meta name="viewport" content="width=device-
width, initial-scale=1.0">
<meta name="author" content="Valliyappan,Raja">
```

64. <meter>

Exp:

The meter tag defines a scalar measurement within known range, or a fractional value.

Ex:

```
<label for="disk"> Disk Usage:</label>
<meter id="disk" value="2" min="0" max="10">2
out of 10 </meter>
```

65. <nav>

Exp:

The nav tag defines an navigation bar.

Ex:

<body>

<header>

<nav> <nav>

</header>

<section> </section>

<footer> </footer>

</body>

66. <noscript>

Exp:

The noscript tag defines an alternate content to be displayed to users that have disabled scripts in the browser or doesn't support in the browser.

Ex:

<noscript> Your browser does not support JavaScript</noscript>

67. <object>

Exp:

The object tag defines a container for an external resources.

Ex:

```
<object data="html.jpg">
<param name="autoplay" value="true">
</object>
```

68.

Exp:

Ol tag is used for create the ordered list like alphapetic, numeric, roman;

Ex:

```
     HTML
     CSS 
     JavaScript
```

69. <optgroup>

Exp:

Optgroup tag used for group the option values in a document.

Ex:

Check out Select tag.

70. <option>

Exp:

Option tag used for insert the value into the drop down list

Ex:

Check out the select tag.

71. <output>

Exp:

Output tag used to represent the result of calculation.

Ex:

<form>

<output name="x" for="a b"> </output>

</form>

72.

Exp:

P tag defines an paragraph tag.

Ex:

Welcome Back Valliyappan

73. <param>

Exp:

The parameter tag used for an object element.

Ex:

Check out <object> tag.

74. <picture>

Exp:

The picture tag used for group of image stored under one tag.

Ex:

<picture>

<source media="(min-width=500px)" srcset="path</pre>

or link"> </source>

</picture>

75.

Exp:

The pre defines an preformatted text.

Ex:

Text in a pre element
is displayed in a fixed-width
font, and it preserves
both spaces and
line breaks

Exp:

The progress tag represents the completion progress of a task.

Ex:

<label for="file" > Downloading </label>
cprogress id="file" value="32"
max="100">32%

77. <q>

Exp:

The q tag defines an quotation mark.

Ex:

The HTML notes was created by <q> Valliyappan </q> 2023

78. <s>

Exp:

The s tag specifies text that is no longer correct, accurate or relevant. The text will be displayed with a line through it.

Ex:

< s>Only HTML Notes Available </s>

79. <samp>

Exp:

The samp tag is used for sample output from a computer program. Monospace font default.

Ex:

Message From My Laptop <samp>File Not Found </samp>.
br>Press Enter to Continue

80. <script>

Exp:

The script tag is used to embed the client-side script(JavaScript).

Ex:

<script>

document.getElementById("demo").innerHTML="H
ello JavaScript";

</script>

81. <section>

Exp:

The section tag defines one section in a document.

Ex:

<body>

<header> </header>

<section> </section>

<footer> </footer>

</body>

82. <select>

Exp:

The select tag used to create drop down list.

Ex:

<select name="Courses" id="course">

<optgroup label="Frontend -Development">

<option value="Html">HTML</option>

<option value="CSS">CSS </option>

<option value="Javascript">Javascript</option>

<option value="React">React Js</option>

</optgroup>

</select>

```
83. <small>
Exp:
The small tag defines an smaller text .
Ex:
 <small> HTML NOTES BY VALLIYAPPAN </small>
```

```
84.
       <source>
       Exp:
           Source used inside the audio and video tags.
       To insert multiple files.
  Ex:
       <!DOCTYPE html>
       <html>
       <head>
           <title>Source Tag </title>
       <head>
       <body>
  <audio controls width = "200px" height="100px">
  <source src="tamil.mp3" type="audio/mp3">
  </audio>
  <video controls width = "200px" height="100px">
  <source src="tamil.mp4" type="video/mp4">
  </video>
  </body>
  </html>
```

85.

Exp:

The span tag is used for edit or modify some particular content of the webpage.

Ex:

<body>

The HyperText Markup Language or HTML is the standard <u>markup language</u> for documents designed to be displayed in a <u>web browser</u>
SPAN>. It is often assisted by technologies such as <u>Cascading Style Sheets</u> (CSS) and <u>scripting languages</u> such as <u>JavaScript.</u>

</body>

86.

Exp:

The strong tag is similar to bold tag. It stores with importance.

Ex:

<body>

 Valliyappan HTML Notes

</body>

87. <style>

Exp:

The style tag used for internal CSS.

Ex:

<head>

<style>

P{

```
Color:Blue;

}
</style>
</head>
```

88. <sub>

Exp:

Sub tag is subscript tag.

Ex:

H₂ 0

89. <summary>

Exp:

The summary tag is used for details tag(hidden tag) visible heading for the details element.

Ex:

<details>

<summary> HTML NOTES </summary>

<h4> HYPER TEXT MARKUP LANGUAGE </h4>

</details>

90. <sup>

Exp:

Sup tag is superscript tag.

Ex:

a ² + b²=2ab

Exp: Exp: The Table tag is used to Create table. Ex: <!DOCTYPE html> <html> <head> <title>Table Tag</title> </head> <body> <caption> FrontEnd Development Course </caption> <thead> Courses Duration

```
</thead>
   HTML 
       1 WEEK 
     CSS
       1 WEEK 
     <tfoot>
     </tfoot>
 </body>
</html>
```

93.

Exp:

Table body content.

Ex: check out the table tag

94.

Exp:

Td tag is used for table data to add values into the table.

Ex:

Check out the table tag.

95. <template>

Exp:

The template tag is used for whatever in the tag inside content can be rendered later with javascript.

Ex:

<template> <h2>HTML NOTES</h2></template>

<script>

Javascript code.

</script>

96. <textarea>

Exp:

To create a textarea box content.

Ex:

<form>

<textarea rows="5px" cols="32px"> </textarea>

</form>

97. <tfoot>

Exp:

Table footer content.

Ex: check out the table tag

98. >

Exp:

Th tag is used for table heading to add values into the table.

Ex:

Check out the table tag.

99. <thead>

Exp:

Table header content.

Ex: check out the table tag

100. <time>

Exp: To insert time or date into the webpage

Ex:

Good morning Guys it's <time> 10:00</time> am

.

```
Good morning Guys it's <time datetime="2000-11-02"> My BirthDay</time>
```

101. <title>

Exp:

Title is used for create a table tab name and title is used as attribute also.

Ex:

<head>

<title> Title Element Tag<title>

</head>

102.

Exp:

Tr tag is used to create a table row.

Ex:

Check out the table / caption tag.

103. <track>

Exp:

Track tag is used to define a Subtitle, caption of video and audio elements.

Ex:

<video controls>

<source src= "HTML.mp4" type="video/mp4">

```
<track src="link /path" kind="subtitles" srclang="en"> </video>
```

104. <u>

Exp:

U tag is used for underline the selected content.

Ex:

The Notes Created by <u> Valliyappan
Periyakaruppan </u>

105.

Exp:

Ul tag is used for a create unordered list like disc, square, circle, none;

Ex:

HTMLCSS JavaScript

106. <var>

Exp:

Var tag is used to declare the variable in programming and mathematical functions.

```
Ex:  The area of triangle is: ½ x <var> b </var> x<var>h </var>
```

107. <video>

Exp:

Video tag is used for insert the video content into the webpage.

Ex:

108. <wbr>

Exp:

Wbr tag is Word Break Opportunity that specifies to add line break. The statement was very long so fore wbr used.

Ex:

```
<!DOCTYPE html>
<html>
<head>
<title> WBR Tag </title>
</head>
<body>
 To learn PYTHON , you must be familiar with C programming <wbr>
Language Basics </wbr>

</body>
</html>
```

THANK YOU

I HOPE YOU LIKE THE HTML NOTES CONTENT. IF
ANYTHING WRONG OR SOMETHING COULD BE BETTER
MEANS PLEASE LET ME KNOW, SEND YOUR FEEDBACK
TO BELOW EMAIL ID:

valliyappanraja02112000@gmail.com