## **Hyper Text Markup Language**

## References:

https://www.w3schools.com/tags/ref\_byfunc.asp https://developer.mozilla.org/en-US/docs/Web/HTML/Element

#### **Basic Structure:**

- html tag
- head tag: inside head tag there will be -> meta tags, title and links
- body tag: the whole page code will be inside of this

```
<h1> Basic Structure :</h1>
  <br />
  <h1>---->html element starts</h1>
  <br />
  <h2>----- > head element starts</h2>
  <h3>----- title element starts</h3>
  <h4>----- / 'write title'</h4>
  <h3>----- → title element ends</h3>
  <h2>----- head element ends</h2>
  <br />
  <h2>----- ≥ body element starts</h2>
  -----there can be p element (also called tag)
  </h3>
  <h3>
    -----there can be also other different elements
    (different tags)
  </h3>
  <h2>----- body element ends</h2>
  <br />
  <h1>----►html element ends</h1>
 </body>
</html>
```

### **HTML Attributes:**

- Attributes are those things, which are defined to add some additional features to the html element.
- For example, 'style="" 'attribute is used to add some color to the text, 'src="" 'attribute is used to add the source of the image, and 'alt="" 'attribute is used to add the alternative text to the image.
- So, that means attributes are defined or used only in html elements.

```
<!DOCTYPE html>
<html>
```

```
<head>
   <title>HTML Attributes</title>
 </head>
 <body>
   <!-- here style="" is an attribute -->
   Hello World!
   <!-- here src="" and alt="" are two attributes -->
   <img src="" alt="" />
   >
     <br/>b>That means attributes are those things, which are defined to add some
       additional features to the html element. For example, ' style="" '
       attribute is used to add some color to the text, ' src="" ' attribute
is
       used to add the source of the image, and 'alt="" 'attribute is used
to
       add the alternative text to the image. So, that means attributes are
       only defined or used only in html elements.
     </b>
   </body>
</html>
```

Text Formatting (Use of different elements or tags like - p, b, i, strong, em, mark, code, small, del, ins, u, sub, sup, br etc.):

```
<!-- paragraph -->
   <g>>
     Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quia facilis
     repellendus ab adipisci at, deleniti rem? Voluptatem accusantium officia
     magnam, hic aliquid perspiciatis est enim repudiandae quia architecto
     voluptatum in qui quidem ipsam voluptates dignissimos optio. Reiciendis
     nisi culpa molestias distinctio recusandae est aut, magnam quasi, hic
     officiis obcaecati sit!
   <!-- bold text -->
   <b>Hello</b>
   <!-- important text : same as bold -->
   <strong>John Doe
   <!-- italic text -->
   <i>John Doe</i>
   <!-- emphasized text : italic -->
   <em>John Doe</em>
   <!-- marked text : will be highlighted -->
   <mark>John Doe</mark>
   <!-- small font -->
   <small>John Doe
   <!-- deleted text/eliminated text -->
   <del>John Doe</del>
   <!-- inserted text/added text : works like underlined text -->
   <ins>John Doe</ins>
   <!-- underlined text -->
   <u>John Doe</u>
   <!-- subscript is a character (such as a number or letter) that is set
slightly below of the normal line of type -->
   <sub>John Doe</sub>
   H<sub>2</sub>0
   <!-- superscript is a character (such as a number or letter) that is set
slightly above of the normal line of type -->
   <sup>John Doe</sup>
   (a+b)<sup>2</sup> = a<sup>2</sup> + 2ab + b<sup>2</sup>
```

```
>
     a
     <sup
       >b <sup>c <sup>d </sup> </sup>
    <!-- line break tag -->
    <br />
    <!-- when we use 'p' tag, whatever formatting or line breaks we give, it
will be shown always in one line, but when we use 'pre' tag, it will be shown
as it is. Just like we wrote, whatever we write, it will be shown as it is --
    <
                         Lorem ipsum dolor sit,
       amet consectetur adipisicing elit.
       Harum recusandae quod quia,
        cupiditate dolore numquam reiciendis,
        expedita sit optio ut aspernatur cumque,
                  ducimus vitae autem est porro! Voluptatibus, laborum iste?
           Numquam ducimus inventore perspiciatis odio at itaque pariatur
distinctio quis nemo explicabo!
       Reiciendis sapiente repudiandae, modi saepe, ipsam neque quo assumenda
aperiam corporis voluptatum,
       fuga nemo eaque est atque natus dolorum exercitationem pariatur minus
harum dolores corrupti eveniet nobis consequatur?
                         Tempore quam voluptate velit hic dolor ex optio
consequatur laborum perspiciatis odit quidem dolorum dolorem unde quod magni
omnis,
       quo expedita eum accusantium error facilis labore saepe, magnam
accusamus!
       Porro.
   <!-- horizontal rule element/hr tag -->
    <h1>Below this is a horizontal rule element (hr tag)</h1>
    <hr />
    <!-- we will see a horizontal line here -->
    <!-- blockquote tag -> to show the quote in the webpage, with the author's
name, and the source of the quote with cite="" attribute -->
    <blockquote cite="https://www.goodreads.com/quotes">
     "If you want to know what a man's like, take a good look at how he
```

```
treats
     his inferiors, not his equals." - J.K. Rowling, Harry Potter and the
     Goblet of Fire
   </blockquote>
   <!-- quote tag -> to show the quote in the webpage. It will automatically
show the quote in double quotes -->
     >If you want to know what a man's like, take a good look at how he
treats
     his inferiors, not his equals.
   </q>
   <!-- abbr tag -> to show the abbreviation in the webpage, with the title
attribute to show the full name of the abbreviation. On mouse cursor hovering
on the abbreviation, it will show the full name -->
   I live in <abbr title="Bangladesh">BD.</abbr>
   <!-- address tag -> to show the address in the webpage. It will be seen
that, the text is in italic form -->
   <address>Dhaka, Bangladesh</address>
   <!-- bdo tag with dir="rtl"/right-to-left attribute. It will reverse the
text -->
   <bdo dir="rtl">John Doe</bdo>
   <!-- code element will show like code font -->
   <
     <code>
       cout << ("Hello World!");</pre>
       return 0;
     </code>
   <!-- samp element will show exactly like code element's font -->
   Output: <samp>Hello World!</samp>
   <!-- kbd element -> keyboard key command can be written like this -->
   >
     Type '<kbd>CTRL + S</kbd>' to save your code file in Visual Studio Code
   </body>
</html>
```

## **Headings / Headlines:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Headlines</title>
  </head>
  <body>
    <!-- There are 6 heading tags in HTML. We can use them to create headings.
h1 to h6. Larger to Smaller -->
    <h1>Heading1</h1>
    <h2>Heading2</h2>
    <h3>Heading3</h3>
    <h4>Heading4</h4>
    <h5>Heading5</h5>
    <h6>Heading6</h6>
  </body>
</html>
```

# **HTML Styling with CSS:**

```
This is a paragraph with red color and Courier New font.
   <p
     style="
       color: red;
       font-family: 'Courier New', Courier, monospace;
       font-size: 20px;
     This is a paragraph with red color, Courier New font, and 20px font
size.
   <p
     style="
       color: red;
       font-family: 'Courier New', Courier, monospace;
       font-size: 20px;
       text-align: center;
     This is a paragraph with red color, Courier New font, 20px font size,
and
     center alignment.
   <p
     style="
       color: red;
       font-family: 'Courier New', Courier, monospace;
       font-size: 20px;
       text-align: center;
       background-color: lightblue;
     This is a paragraph with red color, Courier New font, 20px font size,
and
     center alignment, and lightblue background color.
   <!-- here, style is an attribute and color, font-family, font-size, and
text-align, background-color are css styling properties. As we can see, we can
use multiple properties in one style attribute -->
```

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

#### HTML (Inline CSS):

#### HTML (Internal CSS):

```
This is a paragraph
</body>
</html>
```

#### HTML (External CSS):

```
p {
  color: brown;
}
```

# **HTML Anchor Tag:**

#### **Absolute URL:**

#### HTML Anchor Tag (with absolute URL):

```
< ! --
   These are anchor (<a>) tags that demonstrate different values of the
'target' attribute:

    _blank → Opens the link in a new tab or window.

      - _self → Opens the link in the same tab (default behavior).
     - _parent → Opens the link in the parent frame (used when inside
iframes).
    - _top → Opens the link in the full window, breaking out of all
frames.
    All links point to Faizul Bitto's GitHub profile.
    Since these links include the full URL (with https://), they are
considered **absolute URLs**, meaning they point to a resource on a different
website or domain.
   -->
    <a
     href="https://github.com/Faizul-Bitto"
     target="_blank"
     title="GitHub Profile"
     >Faizul Bitto's Github Profile (opens in new tab)
    </a>
    <br />
    <a
     href="https://github.com/Faizul-Bitto"
     target="_self"
     title="GitHub Profile"
      >Faizul Bitto's Github Profile (opens in same tab)
    </a>
    <br />
    <a
     href="https://github.com/Faizul-Bitto"
     target="_parent"
     title="GitHub Profile"
     >Faizul Bitto's Github Profile (opens in parent frame)
    </a>
    <br />
```

#### HTML Anchor Tag -> for mail (absolute URL):

#### **HTML Anchor Tag -> for mobile (absolute URL):**

```
<!DOCTYPE html>

<html>

<head>
    <title>Anchor Tag</title>
    </head>
```

#### **Relative URL:**

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Relative URL</title>
 </head>
 <body>
    <p
      style="
        color: aqua;
        font-size: 50px;
        text-align: center;
        font-family: 'Courier New', Courier, monospace;
        background-color: black;
        padding: 20px;
        border-radius: 20px;
        text-transform: uppercase;
        letter-spacing: 2px;
        text-shadow: 2px 2px 5px red;
        box-shadow: 2px 2px 5px red;
      Demo
```

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

```
<!DOCTYPE html>
<html>
 <head>
   <title>Anchor Tag</title>
 </head>
 <body>
     <!--
   This anchor tag uses a **relative URL** (./demo.html) to link to another
page within the same project or directory.
     - './' refers to the current folder.
     - Clicking the link will open demo.html in a new tab (because of
target="_blank").
   This is different from an absolute URL, which includes the full website
link (like https://...)
   -->
    <a href="./demo.html" target="_blank" title="Demo">Demo</a>
 </body>
</html>
```

## table element:

```
<body>
 <!-- x axis: rows ; y axis: columns -->
 A1
   B1
   C1
  A2
   B2
   C2
  A3
   B3
   C3
  </body>
</html>
```

#### **Row and Column Span:**

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Table</title>

</head>
```

```
<body>
    <!--
  This table displays average height, width, and red eye percentages for
males and females.
    - <caption> adds a title to the table.
    -  merges two columns for the "Average" heading.
    -  merges two rows vertically for "Red Eyes".
    -  contains the actual data cells.
  The structure helps create a multi-level header with properly aligned
data.
  -->
  <caption>
     <box><b>A Test Table</b></b></box>
    </caption>
    <!-- now we have to work with rows -->
    Average
     Red Eyes
    Height
     Width
    Male
     1.9
     >0.33
     40%
    Female
     1.7
     0.3
     43%
```

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

#### List:

#### Ordered List (ol element):

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Ordered List</title>
 </head>
 <body>
   <!--
   This is an ordered list () where items are automatically numbered
using lowercase letters (a, b, c...). We can also capital letters (A, B,
C...), even roman numbers (i, ii, iii...).
     - 'type="a"' sets the list style to lowercase alphabet.
     - 'type="A"' sets the list style to uppercase alphabet.
     - 'type="i"' sets the list style to lowercase roman numbers.
     -  tags define each list item.
   type="a">
     Item 1
     Item 2
     Item 3
     Item 4
   type="A">
     Item 1
     Item 2
     Item 3
```

```
Item 4
 type="i">
  Item 1
  Item 2
  Item 3
  Item 4
 type="i">
  Rice
  Dal
  Meat
  type="a">
   Chicken
   Beef
  >0il
 </body>
</html>
```

### Unordered List (ul element):

```
- 'type="circle"' sets the bullet style to circle.
   -  tags define each list item.
  Other possible types are: 'disc' (default), 'circle', and 'square'.
  -->
  ul type="circle">
   Item 1
   Item 2
   Item 3
   Item 4
  ul type="square">
   Item 1
   Item 2
   Item 3
   Item 4
  Rice
   Dal
   Meat
   Chicken
    Beef
   >0il
  </body>
</html>
```

### form element:

```
<title>Form</title>
 </head>
 <body>
   <!-- fieldset: groups related form elements together with a visible border
    <fieldset>
      <!-- legend: provides a caption or title for the fieldset -->
      <legend>Registration Form</legend>
      <br />
      <!--
       form: defines a form.
        - 'action' specifies the URL where form data will be submitted
        - 'method' defines the HTTP method (e.g., 'post' sends data in body)
      <form action="/submit" method="post">
        <!--
         label: provides a descriptive text for input.
          - 'for' must match the 'id' of the input field
          - Improves accessibility (screen readers) and UX (clicking label
focuses input)
        <label for="username">User name:</label>
        <input
          type="text"
          id="username"
          name="username"
          required
          autofocus
          placeholder="Enter your username"
        />
        <br /><br />
        <!-- Password input with placeholder -->
        <label for="password">Password:</label>
        <input
          type="password"
          id="password"
          name="password"
          required
          placeholder="Enter your password"
```

```
/>
<br /><br />
<!-- Numeric age input -->
<label for="age">Age:</label>
<input
  type="number"
  id="age"
  name="age"
  required
  placeholder="Enter your age"
/>
<br /><br />
<!-- Email field with placeholder -->
<label for="email">Email:</label>
<input
  type="email"
  id="email"
  name="email"
  required
  placeholder="Enter your email address"
/>
<br /><br />
<!-- Gender radio options -->
<label for="gender-male">Male</label>
<input
  type="radio"
  id="gender-male"
  name="gender"
  value="male"
  required
/>
<label for="gender-female">Female</label>
<input
  type="radio"
  id="gender-female"
  name="gender"
  value="female"
  required
/>
<br /><br /><br />
<!-- Interests checkboxes -->
```

```
<label for="interest-readingBooks">Interested in Reading Books</label>
<input
 type="checkbox"
  id="interest-readingBooks"
  name="interest"
  value="readingBooks"
/><br />
<label for="interest-playingVideoGames"</pre>
  >Interested in Playing Video Games>
</label>
<input
  type="checkbox"
  id="interest-playingVideoGames"
  name="interest"
 value="playingVideoGames"/>
  <br />
<label for="interest-traveling">Interested in Traveling</label>
<input
 type="checkbox"
  id="interest-traveling"
  name="interest"
 value="traveling"
/>
<br /><br /><br />
<!-- Range input (optional placeholder alternative: label) -->
<label for="range">Select your age (range):</label><br />
<input type="range" id="range" name="ageRange" min="10" max="100" />
<br /><br />
<!-- Color picker -->
<label for="color">Choose your favorite color:</label><br />
<input type="color" id="color" name="favColor" />
<br /><br /><br />
<!-- Date picker -->
<label for="dob">Date of Birth:</label><br />
<input type="date" id="dob" name="dob" required />
<br /><br /><br />
<!-- Time picker -->
<label for="apptTime">Preferred Appointment Time:</label><br />
<input type="time" id="apptTime" name="apptTime" />
<br /><br /><br />
```

```
<!-- Search input -->
<label for="search">Search:</label><br />
<input
 type="search"
  id="search"
  name="searchQuery"
  placeholder="Search something..."
/>
<br /><br /><br />
<!-- URL input -->
<label for="url">Portfolio Website URL:</label><br />
<input
 type="url"
 id="url"
  name="portfolio"
  placeholder="https://yourportfolio.com"
/>
<br /><br /><br />
<!-- File upload -->
<label for="resume">Upload your resume (PDF/DOC):</label><br />
<input type="file" id="resume" name="resumeFile" />
<br /><br /><br />
<!-- City dropdown -->
<label for="city">Choose your city:</label><br />
<select name="city" id="city" required>
  <option value="">-- Select City --</option>
  <option value="dhaka">Dhaka</option>
  <option value="rangpur">Rangpur</option>
  <option value="sylhet">Sylhet</option>
</select>
<br /><br /><br />
<!-- Textarea with placeholder -->
<label for="question">Do you have any questions for us?</label><br />
<textarea
  name="question"
  id="question"
  cols="30"
  rows="10"
  placeholder="Type your question here...">
</textarea>
<br /><br />
```

## image element:

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Image Tag</title>
 </head>
 <body>
   This is an <img> tag that displays an image from an external URL using the
'src' attribute.
        - 'alt' provides alternative text if the image fails to load (also
helps with accessibility).
       - 'title' shows a tooltip when hovering over the image.
    -->
      src="https://img.freepik.com/premium-photo/sand-road-green-field-
tree_559599-14.jpg?ga=GA1.1.8333300.1743508604&semt=ais_hybrid&w=740"
     alt="nature"
     title="nature"
    />
```

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

## **Favlcon Linking:**

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <!--
   This k> tag sets a favicon (favorite icon) for the webpage.
     - 'rel="shortcut icon"' specifies it's a favicon.
     - 'href' provides the image URL to be used as the icon.
     - 'type' defines the file type of the icon (image/x-icon).
   This icon appears in the browser tab beside the page title.
    link
     rel="shortcut icon"
      href="https://img.icons8.com/?
size=100&id=BdjA3Y8bTxW8&format=png&color=000000"
     type="image/x-icon"
    />
    <title>fav icon</title>
 </head>
 <body>
 </body>
</html>
```

## video element:

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <!-- Ensures proper rendering on different devices -->
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Video</title>
 </head>
 <body>
   <!--
     <video>: HTML5 element to embed video files directly into the page.
     Attributes used here:
     - controls: displays default video controls like play, pause, volume,
etc.
      - autoplay: starts playing the video automatically when the page loads.
      - muted: required with autoplay on most browsers; video must be muted to
autoplay.
      - src: the source of the video file; can be a local file or an online
video URL.
     - width & height: controls the size of the video player (in pixels).
    -->
   <video
      controls
     autoplay
      muted
      src="https://videos.pexels.com/video-files/17554657/17554657-
uhd_2560_1440_24fps.mp4"
      width="500px"
      height="500px">
   </video>
 </body>
</html>
```

### audio element:

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8" />
   <!-- Ensures the website is responsive across all device widths -->
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Audio</title>
 </head>
 <body>
    <!-- Extra line breaks to push audio player down the page -->
    <!-- (Optional: This is not a recommended method in production) -->
    <br /><br />
<br /><br /><br /><br />
   <!--
      <audio>: HTML5 element used to embed and play audio files.
     Attributes used:
     - controls: displays audio controls like play, pause, volume, etc.
      - autoplay: starts playing the audio automatically when the page loads.
      - muted: ensures the audio is muted on load (required for autoplay to
work in modern browsers).
     - src: the source path of the audio file to play (can be local or
external).
     Note: For better browser support, using <source> tag inside <audio> is
recommended.
    <audio controls autoplay muted src="./music/audio.mp3"></audio>
 </body>
</html>
```

#### iframe element:

```
</head>
 <body>
    <!-- iframe element is used to embed another webpage inside the current
webpage -->
   <iframe
      src="https://en.wikipedia.org/wiki/Main_Page"
     frameborder="2"
    ></iframe>
    <br />
    <g>>
     We can use 'width' and 'height' attributes to define the size of iframe
   <iframe
      src="https://en.wikipedia.org/wiki/Main_Page"
     frameborder="2"
      width="100%"
     height="500px"
    ></iframe>
 </body>
</html>
```

### Absolute URL embed and working with 'name' attribute in iframe element:

```
We can use an attribute called 'name' to give a name to the iframe
     </b>
    <br />
    <br />
    >
       Let's say we want to embed another html file (relative URL) inside the
       current webpage
     </b>
    <iframe
     src="../10. iframe element/demo.html"
     frameborder="2"
     width="100%"
     height="500px"
     name="wikipedia"
    ></iframe>
    <br />
    <a
     href="https://www.mongodb.com/resources/languages/mern-stack"
     target="wikipedia"
     >MERN Stack Explained
    </a>
 </body>
</html>
```

#### YouTube video embed in iframe element:

#### </head>

#### <body>

<!--

<iframe>: Inline frame used to embed another HTML page or content (like
a YouTube video) inside the current page.

Attributes explanation:

- src: The URL of the page/content to embed.

In this case, it's a YouTube embed link of the video (not the regular watch?v=... URL).

Example format: https://www.youtube.com/embed/[videoID]

- frameborder: Controls the presence of a border around the iframe.

  A value of "0" means no border. Deprecated in HTML5 but still works in many browsers.
- width: Defines the width of the iframe. Can be in px (pixels) or % (percentage).

Here, "100%" means the iframe will take full width of its parent container.

- height: Defines the height of the iframe. Here, "925px" sets a fixed height in pixels.
- title: Improves accessibility by describing the content inside the iframe.

Screen readers will read this out to visually impaired users.

- allow: A list of features that the iframe is permitted to use.
  - accelerometer: Allows use of device motion sensor.
- autoplay: Allows video to start automatically (if allowed by browser policy).
  - clipboard-write: Allows the iframe content to copy to clipboard.
  - encrypted-media: Allows usage of DRM-protected media.
  - gyroscope: Allows motion sensing using the gyroscope.
- picture-in-picture: Allows the video to pop out in a floating window.
  - web-share: Enables access to the Web Share API.
- allowfullscreen: Boolean attribute that allows the embedded video to be viewed in fullscreen.

-->

#### <iframe

```
src="https://www.youtube.com/embed/CVFFcgvdLts"
    frameborder="0"
    width="100%"
    height="925px"
    title="YouTube video player"
    allow="accelerometer; autoplay; clipboard-write; encrypted-media;
gyroscope; picture-in-picture; web-share"
    allowfullscreen>
    </iframe>

</body>
</html>
```

## **Meta Tags:**

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <!-- we always use meta tags in the head section. Not visible for users,
but these are instructions for the system, for Search Engine Optimization meta
tags are important -->
   <!-- FOR GOOGLE - to catch properly google site -->
   <!-- character set="UTF-8" -->
    <meta charset="UTF-8" />
    <!-- viewport -> initially how the web application will be viewed.
"width=device-width" - says view the webpage with the width of the device
width (device wise width) and "initial-scale=1.0" means 100% zoom, the lesser
than 1 means the lesser than 100% -->
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <!-- description -> description of the webpage -->
    <meta name="description" content="anything" />
    <!-- keyword -> keywords of the webpage, which keywords going to be used,
as a web developer it's not our work to define the content of the keyword,
it's for those who works with SEO, we developer just need to keep this meta
tag properties so that those who works with SEO can define as they want -->
    <meta name="keyword" content="" />
   <!-- author -> define the name of the owner of the webpage -->
    <meta name="author" content="John Doe" />
    <!-- FOR FACEBOOK - to catch properly facebook -->
```

```
<!-- only these meta tags defined up - these are for google, are not
sufficient. as the web pages are shared in the facebook, social medias or
youtube, so we need some needed meta tags, so that we can maintain the rule of
these. EX - facebook has some rules -->
    <!-- for targeting facebook, we don't use 'name' in meta tags, rather we
use 'property', for facebook properties, we use 'og'-> open graph, defined by
facebook, and we use 'site_name' so that facebook can recognize our website --
    <meta property="og:site_name" content="John Doe" />
    <!-- same goes for 'og:url' to confirm facebook the website's url -->
    <meta property="og:url" content="johndoe.com" />
    <!-- same goes for 'og:title' to confirm facebook the website's title -->
    <meta property="og:title" content="Meta Tags Tutorial" />
    <!-- same goes for 'og:image' to confirm facebook the image, in 'content'
- define the location -->
    <meta property="og:image" content=".//" />
    <title>Meta Tags Tutorial</title>
 </head>
 <body>
 </body>
</html>
```

### **No Cache Meta:**

```
for no cache saving in cache memory -->
   <meta http-equiv="cache-control" content="no-cache" />
   <!-- another same thing - -->
    <meta http-equiv="pragma" content="no-cache" />
    <!-- for these two, web page header won't do any caching -->
   <!-- for expiration control -->
    <meta http-equiv="expires" content="0" />
    <meta http-equiv="expires" content="Tue, 01 Jan 1980 1:00:00 GMT" />
    <!-- and of course keep that in mind, for every browser these cache-
control work like same, that's not true, for some browsers, cache control may
not work -->
    <title>No Cache Meta Tags (Caching Header)</title>
 </head>
 <body>
 </body>
</html>
```

#### Time:

## datalist element and Auto Complete Suggestions:

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Auto Complete Suggestions or DataList Tags</title>
 </head>
 <body>
   <!-- whenever user try to write the name of his/her country, after writing
first letter or just writing something, the related suggestions would pop-up,
user can simply select, and that will be selected automatically -->
    <label>My Country : </label><br />
    <input name="country" list="country_name" />
    <datalist id="country_name">
      <option value="Bangladesh"></option>
      <option value="USA"></option>
      <option value="Germany"></option>
      <option value="England"></option>
    </datalist>
 </body>
</html>
```

## Semantic web elements:

```
<article>
<article>
<aside>
<details>
<figcaption>
<figure>
<footer>
<header>
<main>
<mark>
<nav>
<section>
```

```
<summary>
<time>
```

## **HTML** entities list:

https://www.w3schools.com/html/html\_entities.asp

## **Emojis:**

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>emojis</title>
 </head>
 <body>
   <!-- search html emojis codes, just grab and use -->
   >
    🗻
    🗼
    🗽
    🗾
    🗿
    😀
    😁
    😂
    😃
    😄
    😅
   </body>
</html>
```

https://www.w3schools.com/html/html\_emojis.asp