HTML Essentials

1. **Make HTML file :** Create a new file and save it as index.html. That's your html file.

2. **Boilerplate Code :** Basic starting code for every HTML file :

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Page</title>
  </head>
  <body>
    <!-- Content goes here -->
  </body>
</html>
```

3. **What is tag ?**
   A tag is a keyword inside < > used to define content.
   Ex: <p> for paragraph, <h1> for heading

4. **What is live server ?**
   A vs code extension that shows your webpage in a browser instantly when you save your file.

5. `<h1>` to `<h6>` : Heading tags.

    `<h1>` = biggest heading

    `<h6>` = smallest heading

6. `<p>` : Stands for paragraph.
    Used to write normal text content.
    Ex: `<p> this is a paragraph </p>`

7. `<br>` : Stands for break.
    → Used to go to the next line.
    Ex: `Line1 <br> Line2`

8. `<img>` : Used to show images.
    Ex: `<img src="pic.jpg" alt="img not found"/>`

9. `<a>` : Used to create hyperlinks.
    Ex: `<a href="https://google.com"> Go to google </a>`

10. `<div>` : A container box to group HTML
    content together. Helps in Layout/Design.

11. **What is 'id' ?** : A unique name given to one HTML element. Used in CSS or Javascript.

Ex:
```
<div id="header">
    <h2> This is heading </h2>
    <a href="https://google.com"> Google </a>
    <p> This is a paragraph </p>
</div>
```

12. **What is 'Class' ?** : A name that can be given to multiple elements. Used to style or select similar items.

Ex:
```
<p class="note"> Paragraph 1 </p>
<p class="note"> Paragraph 2 </p>
```

13. **What is form ?** : A form is used to collect user input like : name, email, password, etc.

Example : login form, sign-up form, contact form.

→ Basic form structure :
```
<form>
    <!-- form elements here -->
</form>
```

→ important form elements :

<input> : Used to take input (text, email, pass.)

<label> : Adds a label (name) to an input field

<button> : A clickable button (usually to submit the form)

type = "email" : Email input (checks for email format)

type = "password" : Hidden text (for passwords)

type = "submit" : A button to send form data.

```
<form action="/submit" method="post">
    <label for="name">Name:</label>
    <input type="text" id="name" name="username">

    <label for="email">Email:</label>
    <input type="email" id="email" name="useremail">

    <button type="submit">Send</button>
</form>
```

14. What is Boilerplate in HTML ?

↳ A boilerplate is the starting template – the basic structure of an HTML page.

→ You have to write this everytime when you make a new HTML file.

———————→

→ HTML Boilerplate :

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>My First Page</title>
 </head>
 <body>
   <h1>Hello World!</h1>
 </body>
</html>
```

→ <! DOCTYPE html> : Tells the browser "this is an html5 documents".

→ <html lang="en">: Starts the webpage and sets language to english

↳ Website information

⇒ < head > : Hidden part - used for settings, title, meta info, links etc.

↠ <meta charset = "UTF-8">: Ensures your text supoart all languages/ symbols.

⇒ <meta name = "viewport"...> : Makes your page responsive (fits on phones/ tables).

→ <title> My first Page</title>: Sets the title of the page (shown in browser tab)

→ `<body>` : Main visible part – All your content goes here.

→ `<h1>` Hello, I am Sapnendra `</h1>` : A sample heading inside the body.

You can type : You can type 🟡❗ and press Enter in VS-Code to get this full boilerplate instantly if Emmet is enabled.