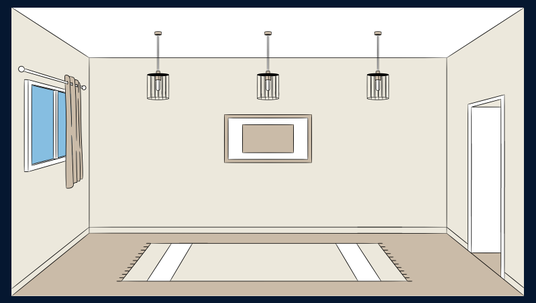
HTML

Structure/layout

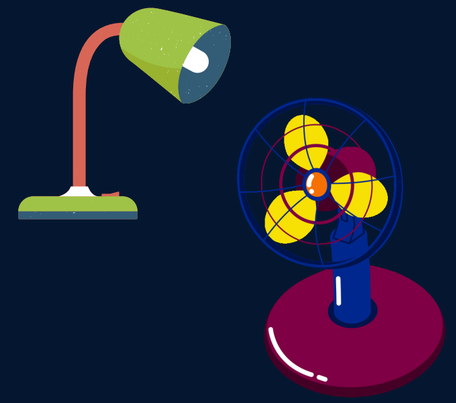


CSS

Style

JS

Logic



Level 1

HTML

Hyper Text Markup Language

HTML is the code that is used to
structure a web page and its content.

The component used to design the
structure of websites are called HTML tags.

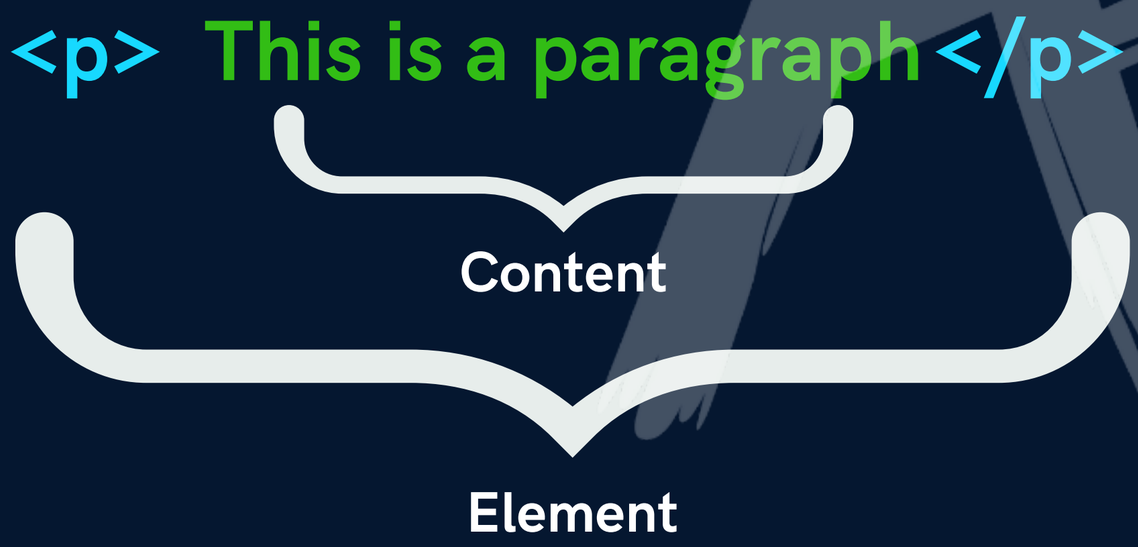
First HTML File

index.html

It is the default name for a website's homepage

HTML Tag

A container for some content or other HTML tags



Basic HTML Page

```
<!DOCTYPE html>
<html>
    <head>
        <title>My First Page</title>
    </head>
    <body>
        <p>hello world</p>
    </body>
</html>
```

tells browser you are using HTML5

root of an html document

container for metadata

page title

contains all data rendered by the browser

paragraph tag

Quick Points

Html tag is parent of head & body tag

Most of html elements have opening & closing tags
with content in between

Some tags have no content in between, eg -

We can use inspect element/view page source to edit html

Comments in HTML

This is part of code that should not be parsed.

<!-- This is an HTML Comment -->

HTML is NOT case sensitive

<html> = <HTML>

<p> = <P>

<head> = <HEAD>

<body> = <BODY>

Level 2

Basic HTML Tags

HTML Attributes

Attributes are used to add more information to the tag

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

Heading Tag

Used to display headings in HTML

h1 (most important)

h2

h3

h4

h5

h6 (least important)

Paragraph Tag

Used to add paragraphs in HTML

 This is a sample paragraph

Anchor Tag

Used to add links to your page

```
<a href="https://google.com"> Google </a>
```

Image Tag

Used to add images to your page

```
<img src="/image.png" alt="Random Image">
```

relative url

Br Tag

Used to add next line(line breaks) to your page

```
<br>
```

Bold, Italic & Underline Tags

Used to highlight text in your page

 Bold

 Italic

<u> Underline </u>

Big & Small Tags

Used to display big & small text on your page

<big> Big </big>

<small> Small </small>

Hr Tag

Used to display a horizontal ruler, used to separate content

```
<hr>
```

Subscript & Superscript Tag

Used to display a horizontal ruler, used to separate content

_{subscript}

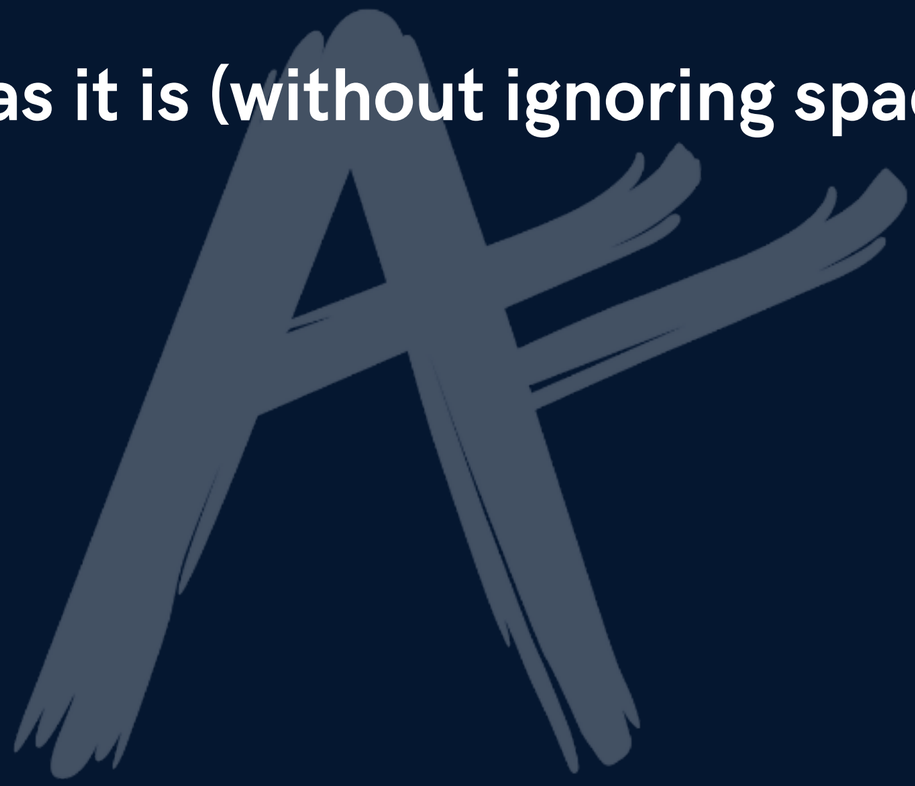
H_2O

^{superscript}

$A^n + B$

Pre Tag

Used to display text as it is (without ignoring spaces & next line)



```
<pre> This
      is a sample
      text.
</pre>
```

Level 3

Page Layout Techniques

using Semantic tags for layout

using the Right Tags

<header>

<main>

<footer>

Inside Main Tag

Section Tag For a section on your page

<section>

Article Tag For an article on your page

<article>

Aside Tag For content aside main content(ads)

<aside>

Revisiting Anchor Tag

```
<a href="https://google.com" target="_main"> Google </a>
```

for new tab

```
<a href="https://google.com"> <img src="link"> </a>
```

clickable pic

Revisiting Image Tag

```
<img src="link" height=50px >
```

set height

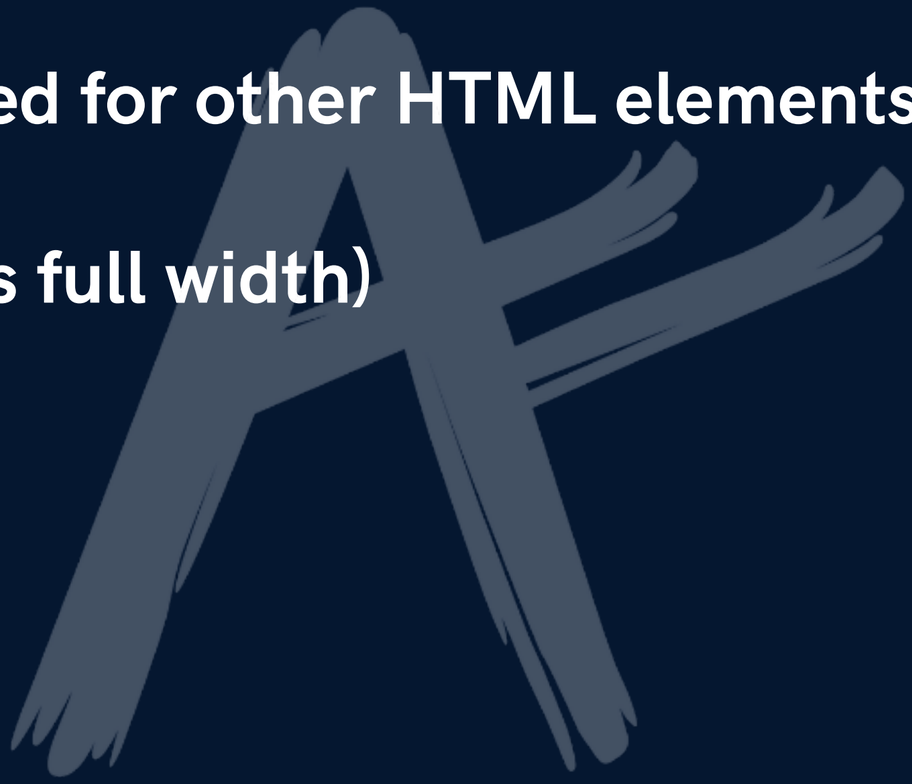
```
<img src="link" width=50px >
```

set width

Div Tag

Div is a container used for other HTML elements

Block Element (takes full width)



List : Div Tags

<address>
<article>
<aside>
<blockquote>
<canvas>
<dd>

<dl>
<dt>
<fieldset>
<figcaption>
<figure>
<footer>
<form>
<h1>-<h6>
<header>
<hr>

<main>
<nav>
<noscript>

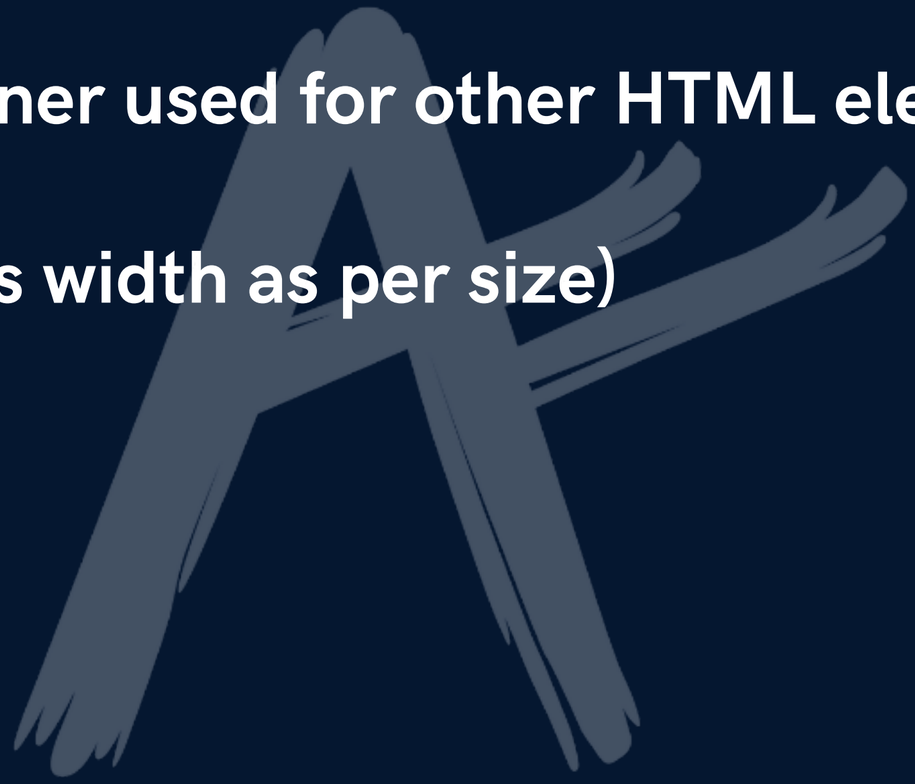
<p>
<pre>
<section>
<table>
<tfoot>

<video>

Span Tag

Span is also a container used for other HTML elements

Inline Element (takes width as per size)



List : Span Tags

<a>

<abbr>

<acronym>

<b>

<bdo>

<big>

<button>

<cite>

<code>

<dfn>

<i>

<input>

<kbd>

<label>

<map>

<object>

<tt>

<var>

<output>

<q>

<samp>

<script>

<select>

<small>

<sub>

<sup>

<textarea>

<time>

Level Pro

List in HTML

Lists are used to represent real life list data.

unordered

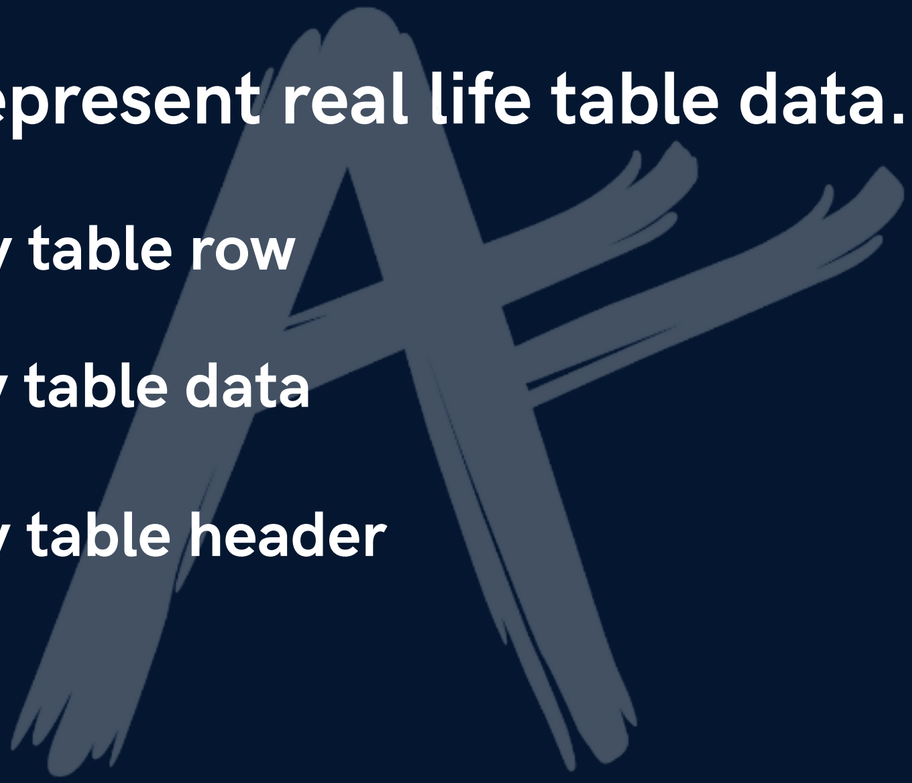
```
<ul>
  <li> Apple </li>
  <li> Mango </li>
</ul>
```

ordered

```
<ol>
  <li> Apple </li>
  <li> Mango </li>
</ol>
```

Tables in HTML

Tables are used to represent real life table data.



<tr>	used to display table row
<td>	used to display table data
<th>	used to display table header

Tables in HTML

```
<table>
        <tr>
            <th> Name </th>
            <th> Roll No </th>
        </tr>
        <tr>
            <td> Shradha </th>
            <th> 1664 </th>
        </tr>
</table>
```

Name	Roll No
Shradha	1664

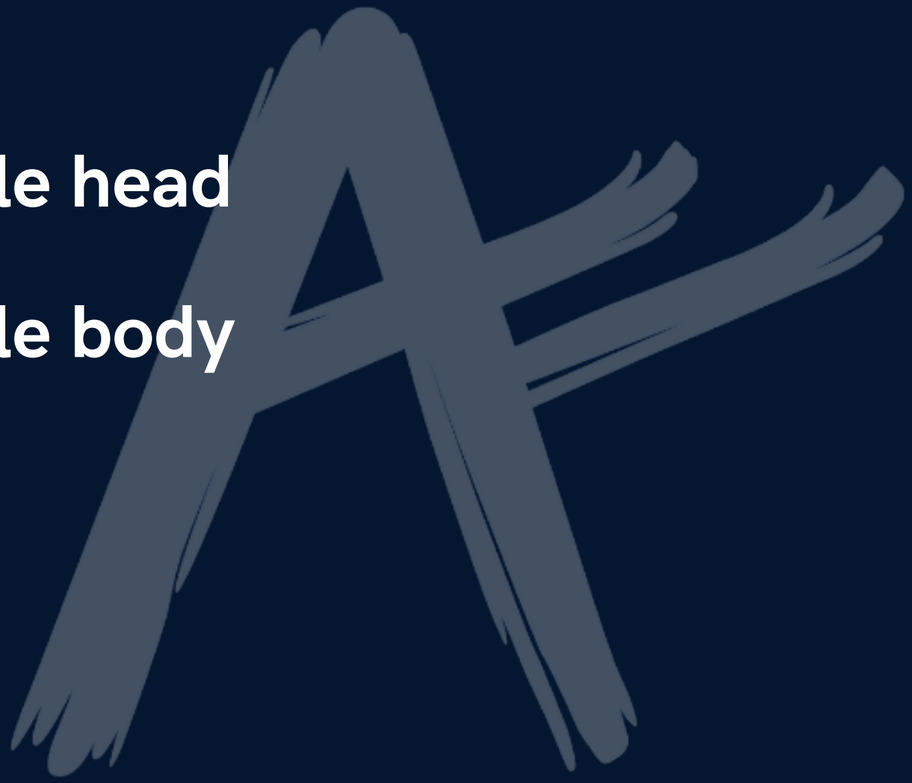
Caption in Tables

<caption> Student Data </caption>

Student Data

Name	Roll No
Shradha	1664

thead & tbody in Tables



<thead> to wrap table head

<tbody> to wrap table body

colspan attribute

colspan="n"

used to create cells which spans over multiple columns

Data	
Shradha	1664
Aman	1890

Form in HTML

Forms are used to collect data from the user

Eg- sign up/login/help requests/contact me

<form>

form content

</form>

Action in Form

Action attribute is used to define what action needs to be performed when a form is submitted

```
<form action="/action.php" >
```

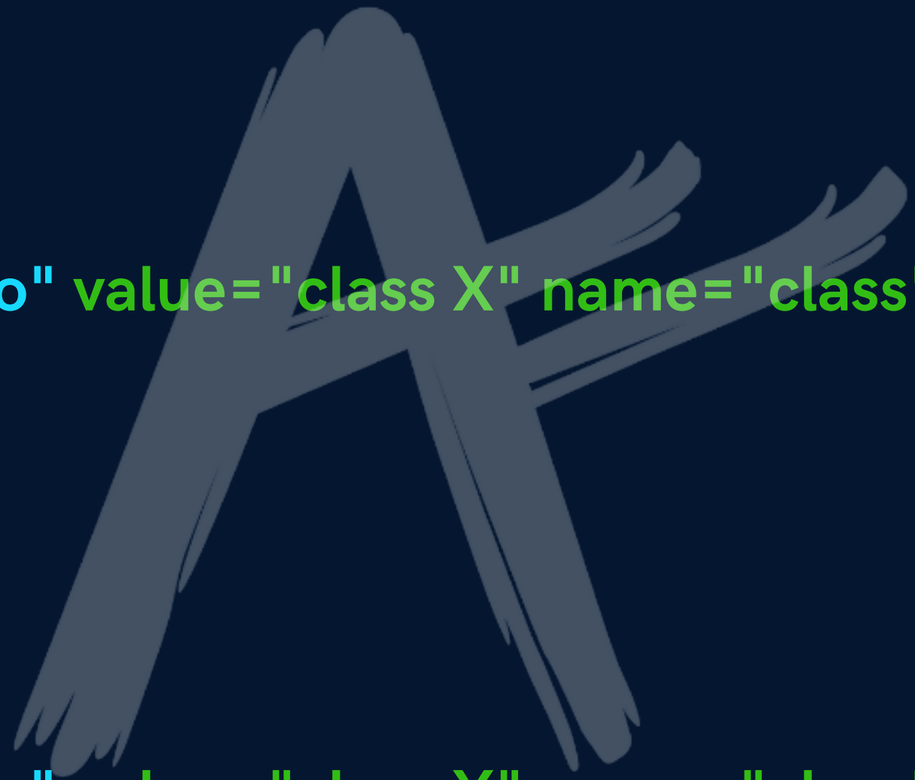
Form Element : Input

```
<input type="text" placeholder="Enter Name">
```

Label

```
<label for="id1">
        <input type="radio" value="class X" name="class"  id="id1">
</label>

<label for="id2">
        <input type="radio" value="class X" name="class"  id="id2">
</label>
```



Class & Id

```
<div id="id1" class="group1">

</div>



<div id="id2"> class="group1">

</div>
```

Checkbox

```
<label for="id1">
        <input type="checkbox" value="class X" name="class"  id="id1">
</label>

<label for="id2">
        <input type="checkbox" value="class X" name="class"  id="id2">
</label>
```

Textarea

```
<textarea name="feedback" id="feedback" placeholder="Please add Feedback">

</textarea>
```

Select

```
<select name="city" id="city">
        <option value="Delhi">  Delhi </option>
        <option value="Mumbai">  Delhi </option>
        <option value="Banglore">  Delhi </option>
</select>
```

iframe Tag

website inside website

```
<iframe src="link">  Link </option>
```

Video Tag

<video src="myVid.mp4"> My Video </video>

Attributes

- controls
- height
- width
- loop
- autoplay

All the very best in your future journey :)

- Aman bhaiya & Shradha didi