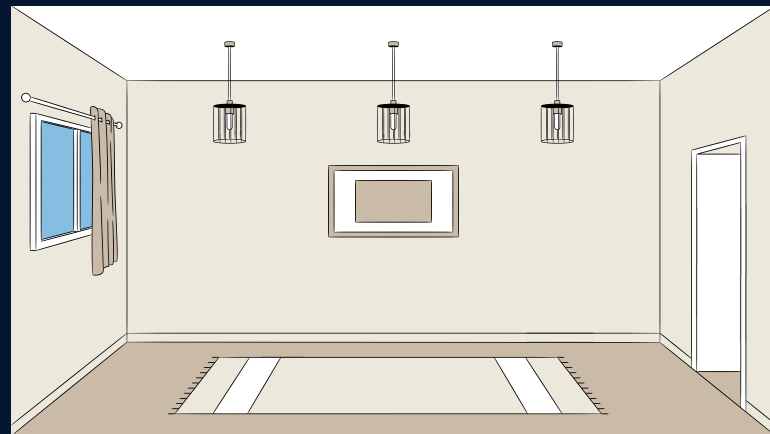


# HTML

# CSS

# JS

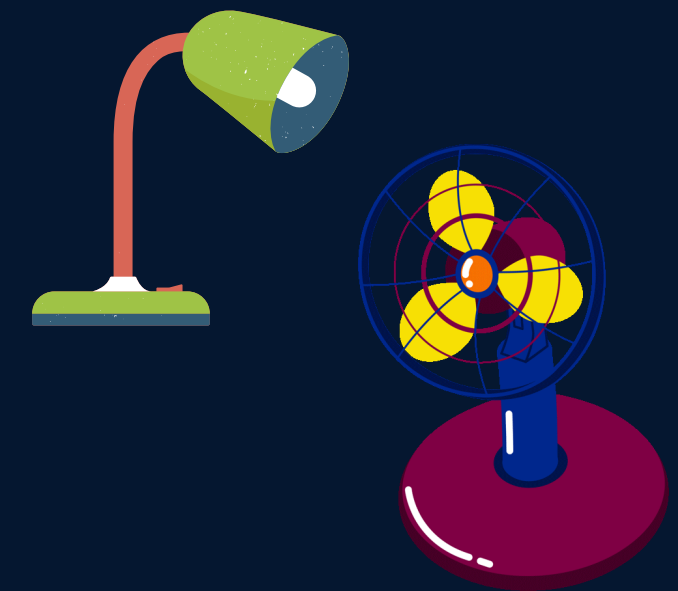
## Structure/layout



## Style



## 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

`<p>` This is a paragraph `</p>`



Content

Element

# Basic HTML Page

```
<!DOCTYPE html>
```

tells browser you are using HTML5

```
<html>
```

root of an html document

```
<head>
```

container for metadata

```
<title>My First Page</title>
```

page title

```
</head>
```

```
<body>
```

contains all data rendered by the browser

```
<p>hello world</p>
```

paragraph tag

```
</body>
```

```
</html>
```

# 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 - `<br>`

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">
```

id,class,name,src,href,name,style,target,placeholder etc....

# Heading Tag

Used to display headings in HTML

**h1**

(most important)

**h2**

**h3**

**h4**

**h5**

**h6**

(least important)

default font size

<h1>: 32px

<h2>: 24px

<h3>: 18.72px

<h4>: 16px

<h5>: 13.28px

<h6>: 10.72px

# Paragraph Tag

Used to add paragraphs in HTML

`<p> This is a sample paragraph </p>`

# Anchor Tag

Used to add links to your page

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

```
<a href="" target="_self"> <h1>hello someone</h1></a>
```

keep in same page

```
<a href="" target="_blank"> <h1>hello someone</h1></a>
```

sends to different page

# Image Tag

Used to add images to your page

```

```

↑  
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

`<b> Bold </b>`

`<i> Italic </i>`

`<u> Underline </u>`



# Big & Small Tags

Used to display big & small text on your page

`<big>` **Big** `</big>`

`<small>` **Small** `</small>`

`<em>` -> emphasizes text, typically displayed in italic.

`<strong>`-> Represents strong importance, typically displayed in bold.

`<sub>` -> Renders text as subscript, typically used for footnotes or mathematical expressions.

`<sup>`

`<abbr>` -> Defines an abbreviation or acronym, often displayed with a dotted underline and a tooltip on hover.

`<code>`-> Represents a fragment of computer code, typically displayed in a monospace font.

`<var>` -> Represents a variable in a mathematical expression or programming context.

# 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

`<sub> subscript </sub>`

$\text{H}_2\text{O}$

`<sup> superscript </sup>`

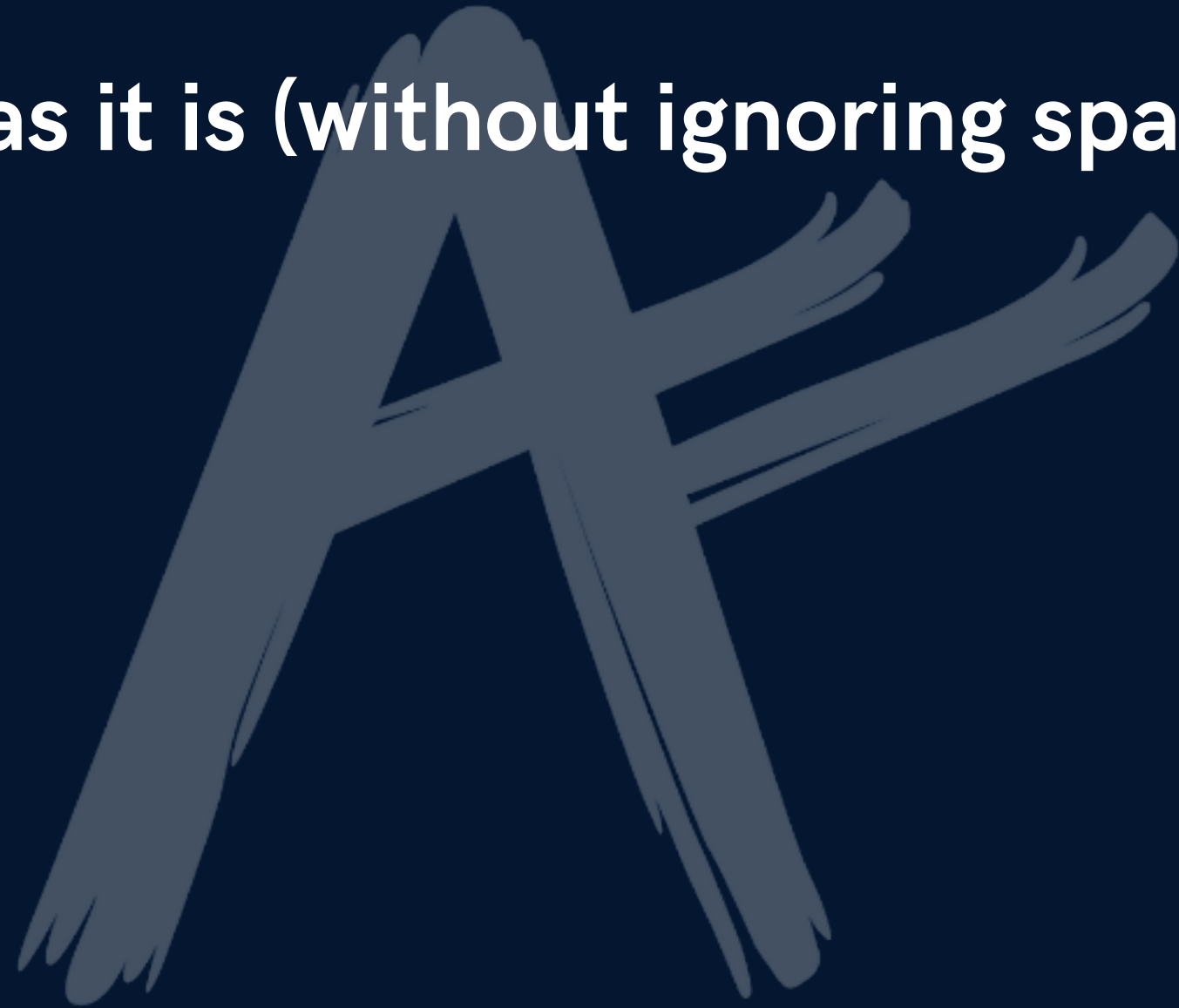
$\text{A}^n + \text{B}$



# 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>`

Semantic tags provide meaning to the content they enclose, making it easier for search engines, screen readers, and developers to understand the structure and purpose of a web page. They improve accessibility, search engine optimization (SEO), and maintainability of the codebase.

# 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">  </a>
```

↑  
clickable pic

# Revisiting Image Tag

``

↑  
set height

``

↑  
set width

# Div Tag

Div is a container used for other HTML elements

**Block** Element (takes full width)

# List : **blockTags** covers full width

**<address>**

**<article>**

**<aside>**

**<blockquote>**

**<canvas>**

**<dd>**

**<div>**

**<dl>**

**<dt>**

**<fieldset>**

**<figcaption>**

**<figure>**

**<footer>**

**<form>**

**<h1>-<h6>**

**<header>**

**<hr>**

**<li>**

**<main>**

**<nav>**

**<noscript>**

**<ol>**

**<p>**

**<pre>**

**<section>**

**<table>**

**<tfoot>**

**<ul>**

**<video>**

**Span Tag** can replace div or paragraph with it

Span is also a container used for other HTML elements

**Inline** Element (takes width as per size)

# List : inline Tags

<a>

<abbr>

<acronym>

<b>

<bdo>

<big>

<br>

<button>

<cite>

<code>

<dfn>

<em>

<i>

<img>

<input>

<kbd>

<label>

<map>

<object>

<tt>

<var>

<output>

<q>

<samp>

<script>

<select>

<small>

<span>

<strong>

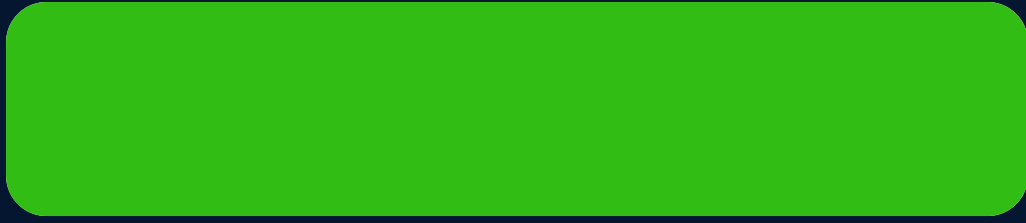
<sub>

<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>`

circle  
disc  
square  
triangle(some browser not support)

we can apply them in css with list-style-type

## ordered

`<ol>`

`<li> Apple </li>`

`<li> Mango </li>`

`</ol>`

Can also use sub list it will automatically manage the ordering and formatting

decimal  
number  
lower-alpha  
upper-alpha  
lower-roman  
upper-roman  
apply with css as list-style-type



# 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

| Name    | Roll No |
|---------|---------|
| Shradha | 1664    |

```
<table>
```

```
<tr>
```

```
<th> Name </th>
```

```
<th> Roll No </th>
```

```
</tr>
```

```
<tr>
```

```
<td> Shradha </td>
```

```
<td> 1664 </td>
```

```
</tr>
```

```
</table>
```

```
<table border="1">
```

```
<tr>
```

```
<td align="center" valign="middle">Centered</td>
```

```
<td align="left" valign="top">Top Left</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right" valign="bottom">Bottom Right</td>
```

```
<td align="justify" valign="baseline">Justified</td>
```

```
</tr>
```

```
</table>
```

Cell Padding: The space between the cell content and its border.  
Cell Spacing: The space between cells.

# 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

visibly no change

# colspan attribute

`colspan="n"`

used to create cells which spans over multiple columns

| Data    |      |
|---------|------|
| Shradha | 1664 |
| Aman    | 1890 |

define in <th>

# 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

very useful in screen reader

if provided with labels then if the id of input and for of lable are smae then on clicking lebel text also teh checkbox get clicked

```
<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="Bangalore"> 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**