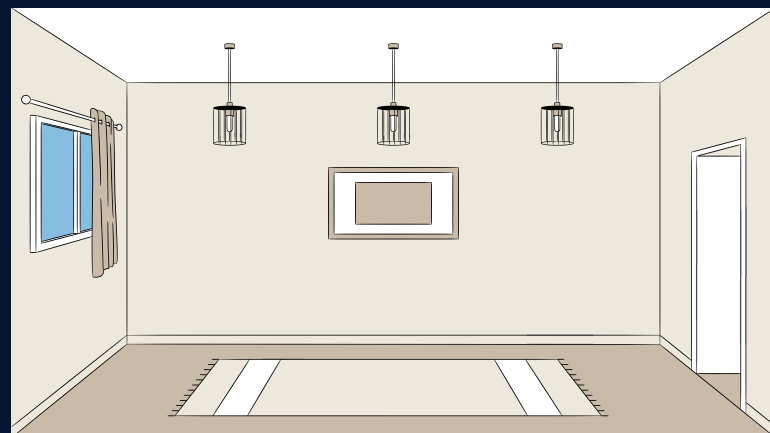


HTML

Structure/layout



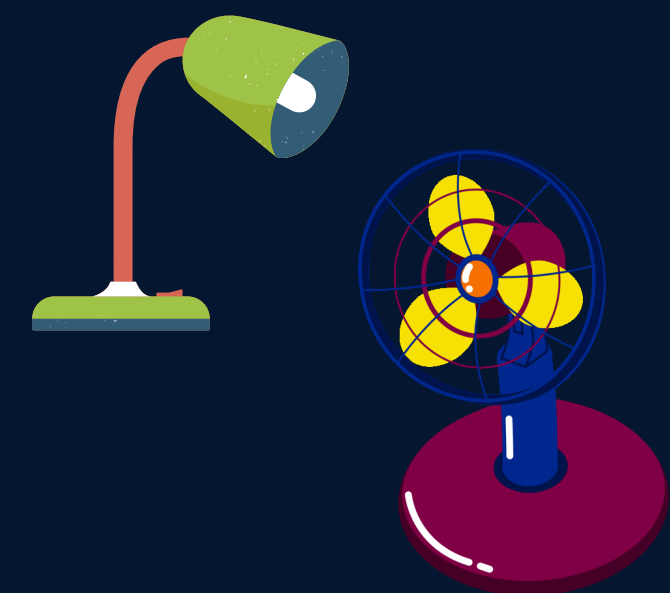
CSS

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

`<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 - `
`

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

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

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

```

```

↑
relative url

Br Tag

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

`
`



Bold, Italic & Underline Tags

Used to highlight text in your page

` Bold `

`<i> Italic </i>`

`<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

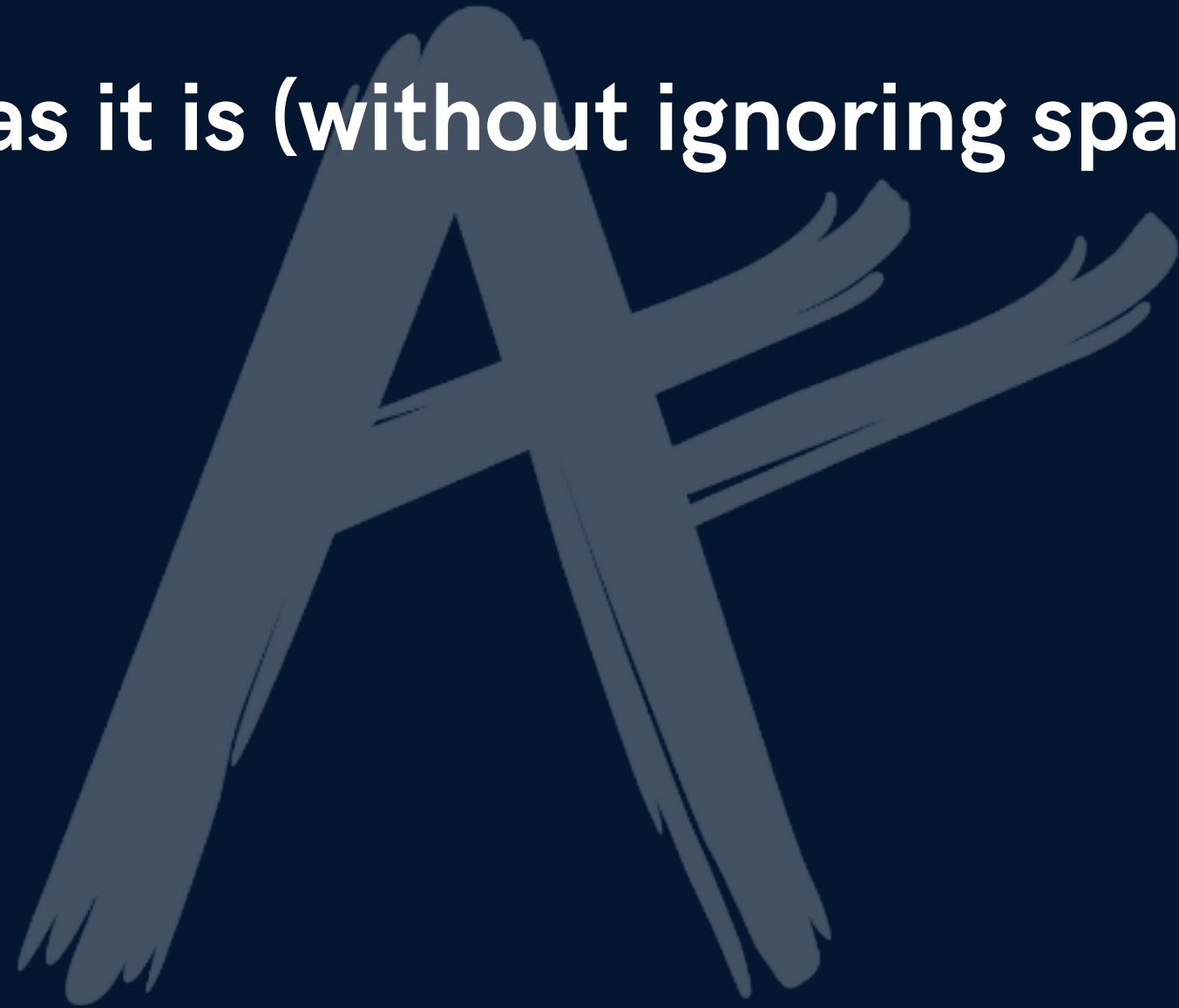
`^{superscript}`

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

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>`



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 : Div Tags

<address>

<article>

<aside>

<blockquote>

<canvas>

<dd>

<div>

<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>

<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

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

```
<table>
```

```
<tr>
```

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

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

```
</tr>
```

```
<tr>
```

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

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

```
</tr>
```

```
</table>
```

Caption in Tables

`<caption>` Student Data `</caption>`

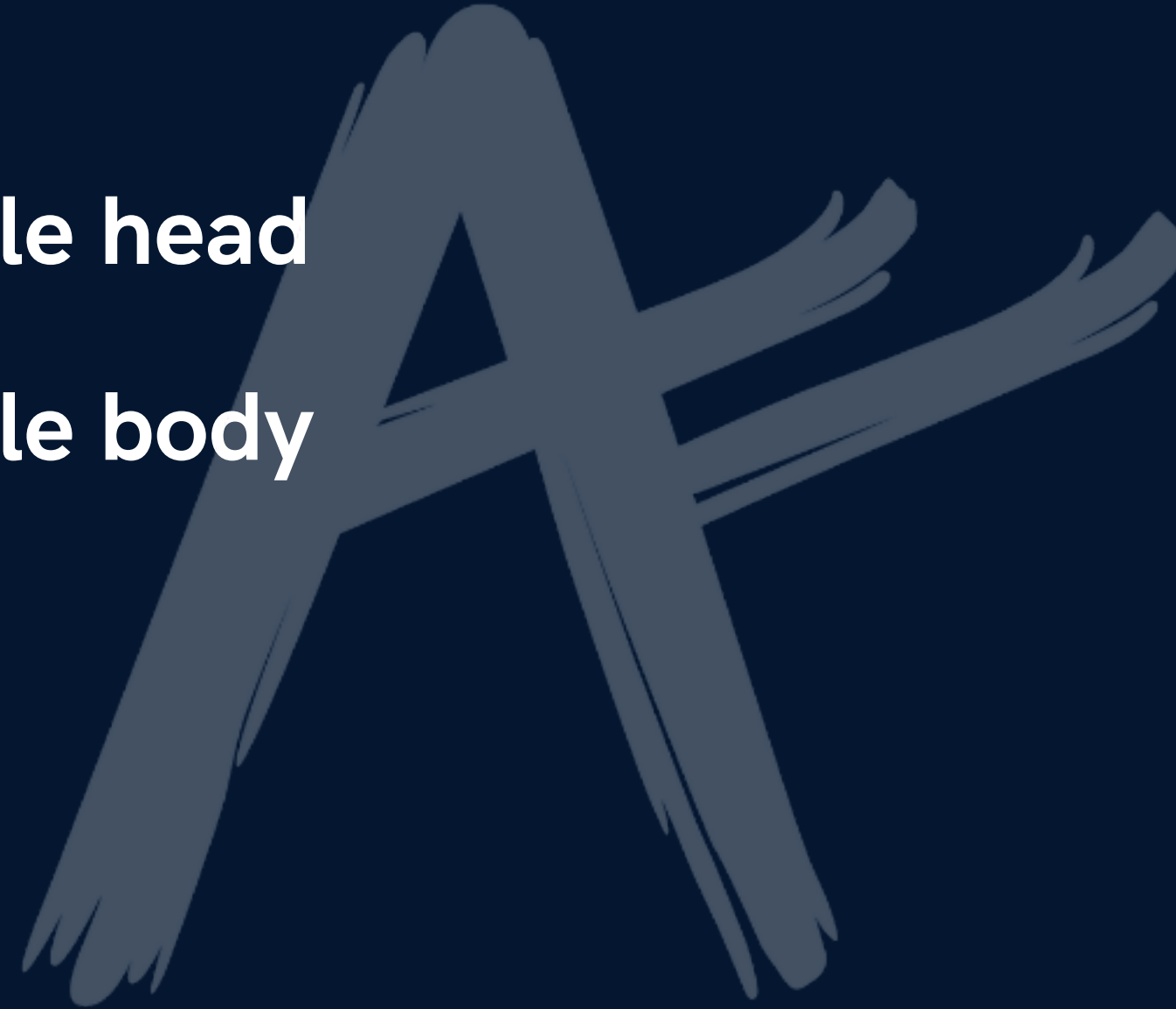
Student Data

| 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="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