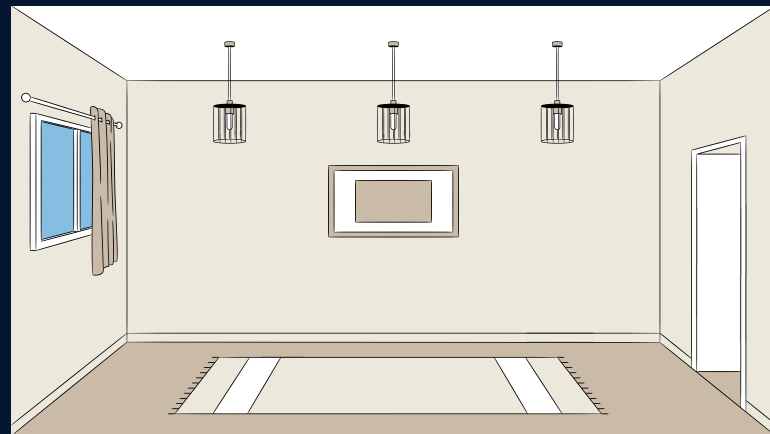


# HTML

# CSS

# JS

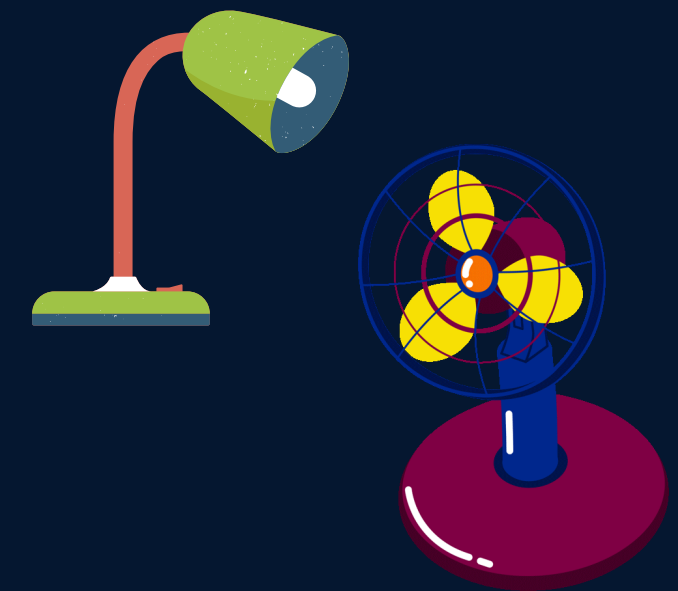
## Structure/layout



## 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">
```

# 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

`<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>`



# 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>`

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

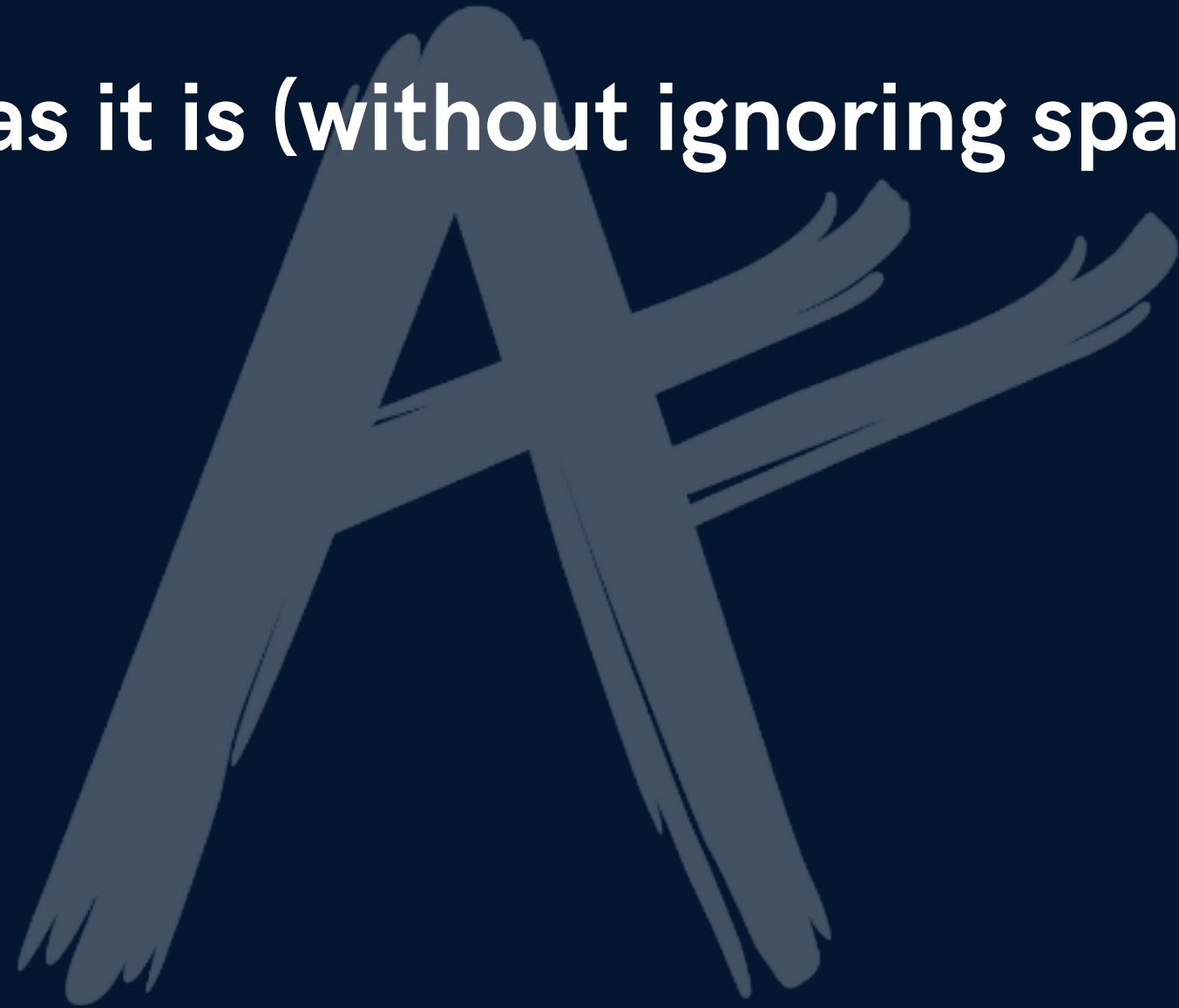
`<sup> superscript </sup>`

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

# 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>`



# 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>

<li>

<main>

<nav>

<noscript>

<ol>

<p>

<pre>

<section>

<table>

<tfoot>

<ul>

<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>

<br>

<button>

<cite>

<code>

<dfn>

<em>

<i>

<img>

<input>

<kbd>

<label>

<map>

<object>

<tt>

<var>

<output>

<q>

<samp>

<script>

<select>

<small>

<span>

<strong>

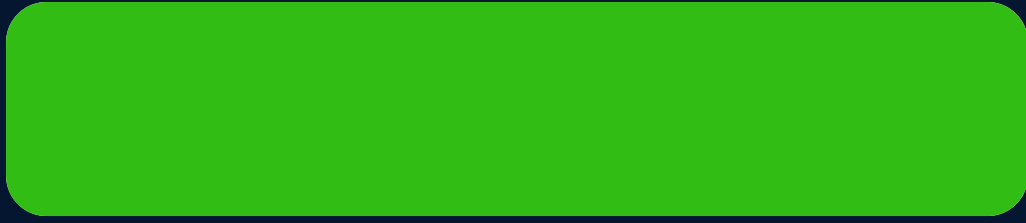
<sub>

<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>
```

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>`

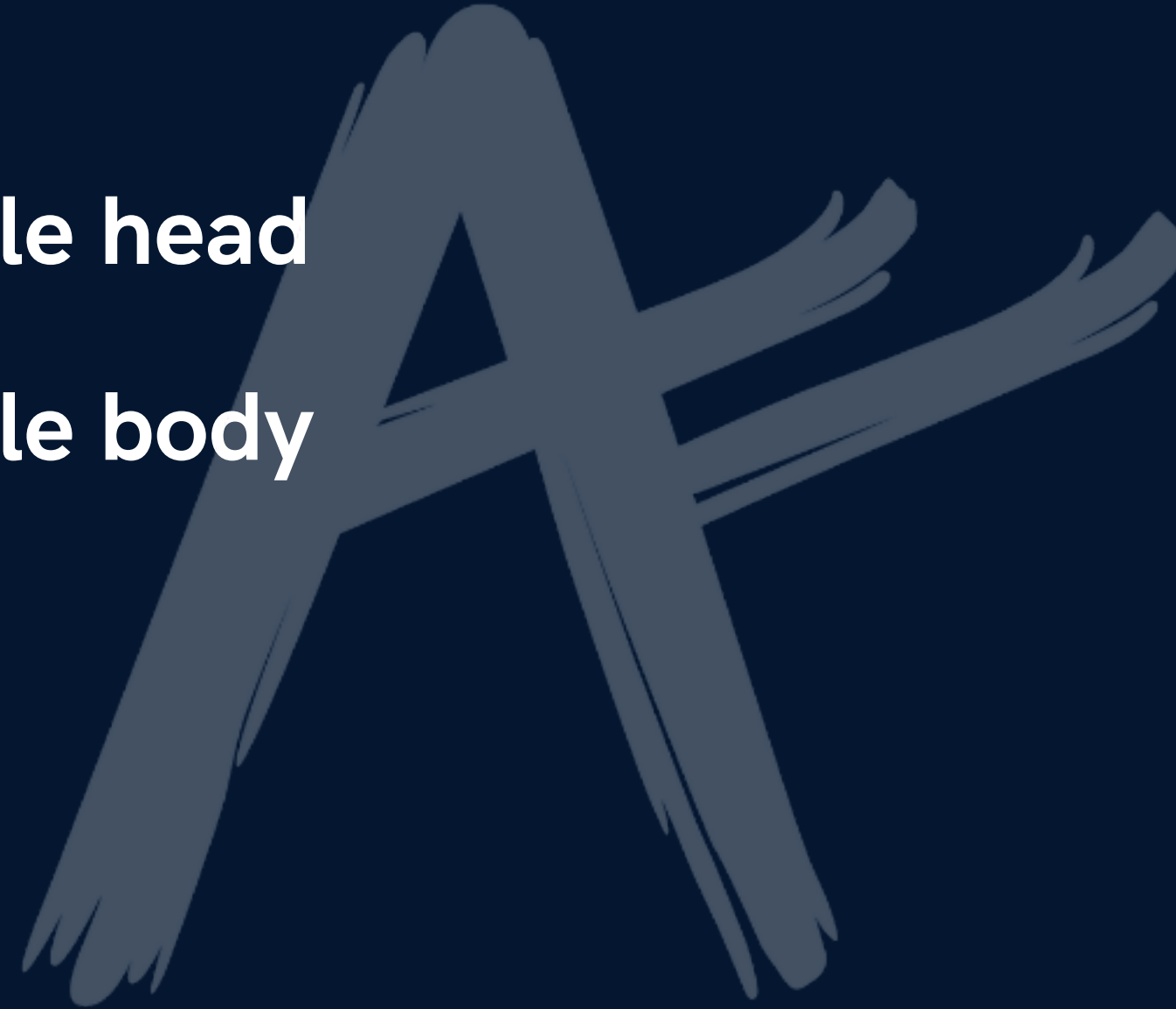
Student Data

| 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



**All the very best in your future  
journey :)**

**- Aman bhaiya & Shradha didi**



# HTML Codes

## By Apna College

### - First HTML Script

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Print Hello</title>
  </head>
  <body>
    <h1>Hello World!</h1>
  </body>
</html>
```

### - Comments in HTML

```
<!-- This is a sample comment in HTML -->
```

### - Heading Tags (H1 to H6)

```
<h1>Heading 1</h1>
  <h2>Heading 2</h2>
  <h3>Heading 3</h3>
  <h4>Heading 4</h4>
  <h5>Heading 5</h5>
  <h6>Heading 1</h6>
```

### - Paragraph Tag

```
<p>Lorem ipsum dolor sit, amet consectetur adipisicing elit. A in dolorum
incididunt recusandae eveniet, quia fuga odio itaque officia ex quos culpa
necessitatibus debitis ea deserunt sed dolores cupiditate. Saepe.</p>
```

### - Anchor Tag

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

- **Image Tag**

The image displays a large block of base64-encoded data, likely representing a logo or image. The data is presented in a monospace font, with each line containing a single line of the encoded string. The string begins with a standard HTML image tag: ``. The encoded data itself is a long, continuous sequence of alphanumeric characters, including letters (both uppercase and lowercase), digits, and symbols like `+`, `=`, and `/`. The encoding appears to be standard base64, used for embedding binary data in text-based formats like HTML. The data is truncated at the bottom of the image.

4EkS7OWNJJJDQ3NzAHmG3K3jbFRk4UuatX0N03EkOgSG2zQNQTee+p2iV22Equc0ZfIzXMR5nHkDYdy  
uC6fTytL3GGCM3+RsQwXvtPHqtOv1moZOYNak6agQBH1SzY3J1EeOSjG5HXveBv77peKuBd1R5/GURn  
U36Z1mvFl+ifkx/DuDUUfEK47/lqn96IzrT9JCteNIh54nUY15yG8WN15rj6sPdeb6rocX1qoGFpbru  
uKqVTJXT4+Fxts4/Kyp0kX2MeW5hok2p3ValjXNaW7FM0kNkrp0f05d18LRrLU6J1Msd1zQDyudbdSz  
xulLGpKgJNxdnqweHAEFQc9cZ0n4jLB1fcBaFT41aRYLm9DT6Ov3RaOhzlLOVzLfiRpCO34hETCPS/w  
Xsj+m/mKZz4ErA/+hOzCqlX4pdcFhj2TWF/gnlijp886KFly+H+Jssy1T/+pP8AZ+Sv0sn3ROWc0uUI  
O11pUcMXHKDoNVB+FufMF12jhKwdG6XiyUGpYwi0LIoad1Kn17odDEOBnuo4gHZVySEJDb5Lld+YydV  
Um6RfKi4oSoTZOURjUFrUSnUgoYJmhhmI7iFTzki2qvUGNyjPqspcdm0ZEgdc6KdWqOxpPi+9/wAlB9  
RkQAhh7tocByAfus+GbRn8L2C6jUaCG5Q29gAInWLa/VbzMUDTgukm0w5wnZr2uJl9g6D6LAweJZ8rm5  
ZkEi8T2/ddH0VtiQ8FsQOXQJaCO0fuVy5ku6PT8ab6uzCxeGcRna2BNy01zAYHN2+j1DFVmuDQbauIE  
CHixtF2kRHp2W/iccxn/AFssCQM02Gx0na/uhVcLmDhtcXwHZnR5jMGIn39ynBvjZUVOKpuLv8AUeW  
XnpQS1paYBygkg2MTbNeTAnzSkekBzJHcWd/OYknWIJ11KGMWKLGeQAXcA4k6EOeOZG36BanScY54u  
2GgeWIAAFg5/fgdiddE91cl0VrCVRfdGFicCloytPmsHOMwEG0xbRCfhWwIMLT6zUOUw+myT8mYF7gI  
i8yTpswR9RrRdxkbRee4/daw2krOPLpF1QUYcNdqSiOwmBzAwqP/Iwis6jwtdJHPvEP1RpLLFcmTe63  
cXi/KZ+iwHaytcUWkc2aScrRPMpZ7ILkpWtGNhQSExchgPsigSx6Jqq7SiZkUFjuBCsUMQWqtnlJw4  
SoadHQUse0wIuoVqDXmd1hMeVdp4gi6nWuJRtvsuuwIOir/0aanjiouxh7JUWuJA4gsJymxlQpPJdMp  
HuhtcMyujInVaJ9VEuhEe8W5VZ77pjfARgJk8J3EOFYiMqAC6Z2KaAiBf1SBTyGYU6ohaIxDHN0hyA9  
7CIOvKak/wKVA6GHLhMhDccpghGDMhkGUVzGv8AVLb/AIAOhUVgugSU9LbiYJhPXGS0yobTfA10VzUB  
1VnD1wLN19Jv6LPqVZUA+E9bGpUb+Ge3NmdkMbEgG/cED8/ZdDQxDS3IwsGzXNCxGbZZESLxzwuRwWI  
aBEAu2BuD2A59dfXW3h+ovdDQ4tE3ayGCOSRwueeNtnb4+dR7JY57muuffb6K1guplpZPy5xm4gzH3/  
JamJ6Ix7GuLglzgTmZdk+WAQJnXWVyuIpOY7K7Q/Tyn8+2ycZRYKjeW+N7fDXx7n4irly0wCYaOJMdh  
+6vViyiwhz3F5beIMBo0AIIbpE+gEaKj0DE5HZjuRYyA4mbEgch+QtnHYJhYt1BcWNzQJaCb3NvUwF  
E6TUfhphHaUXJdvs43EYrzGBL0Fru0uC71kWhV2utmd8uw0LiNhWOT/tXuodP8MnfUMA6M/G6NSTtJMK  
+m9hXo0Z/7akRfIz+7KJiNmGfX3ldSqrPLnttTKlBMIncB0DYHSeLQfQhRFY7JfxcSTckyT3KRF1Ri2  
ScXHVQLgiB94QagumhNkXuQwE5KcFUIaEl1lRQAYkCohOgB0RhUE7SgBOTsfCaQkEAE1UsqHmJZ+6Bl  
hr9PlTubv6KJplpupveRppZiYBw3Q8slGJk/skWQixD+AXCRsEF9NWabyBYpvf39UUrTtakwhpsqZWv  
hg1zDLoJ2ssuqyDCIvliA4HpuU2140Q3UyNqoAJ0mIs+MXHVGBn5iqrWlPKloaZnrZJ0A5JhFpsZIFz  
3Lglv3BMDzHsq4qKXiDcE8CYHvufaE6BMsZmsMOpNMg211xyHSR7hb3SqtN5BFN2bXMHToYvA777azK  
waeLyjRp3yhrCotu4gkn0+q0ML1GuRDCcpsW8GCQCteOIhZ5Itr+TowyS1/B3GLxLmt/6wAQPMABEf  
MIuP5fRc7VYK4ggBwLnF/JDb22JgSLAwTqiVaha2H1ziWhzXZvMHHVsPngOP4Y4DCveC/OGR88FuZt9  
xP8ArcLnklZ6kpOXFX/AIH6VTNNviOLspHka4C5AGcxlQBzC2OmVsxLc0ACxMakXJkwLbZpZYGIx8  
sDSIDXNtyQACfeDburXSqsg598zgJMCD8xi+lgqlC42+xRy61GPQ3VMHsN097nmXESAwQdgCACJiT9j  
N+fxFYpKmaSYDQQImZkNbd0QHauPO60eo4ljXElk7Znkum5s1gN78kLJxeLc+GMBAAOrGgCeAQ0CbXvM  
Tqrxp0cPkSjbr+QLqAb872jsPO76Cw9yFWfU4UqjMoguE8NuB6u0+k+yEdFukcTJCooOcohqRCOREpS  
nhIoEKU8qKeUAJKUyUIAclOCmSCAHThMCnTGIKSgFL+aIAsGpOp0RsMA7NeABP2VvxsosKmhplp7hqO  
EJ7lFl08ieyKCxpKG5p3BCstf5gAFaxbyWjML+iV0Mzm0yBKjTeQZidVbwzHuBjQJoIhFiolhSXnzC  
ylianObWSe8tEacID3kqQGrPGyA4ymJU6bxoQqoRf1Mu0BPMAN8kWjUjYH1AP5gpUWjNflXatdoHm8+  
kTZ4/8A3rHYyOyGxoJhsO9wnyEcEMv2AI+9vVb/AEPDMY4tc7KSILA9hDpuBEkjQXnUahcziJPmzFzb  
dspOzm/hvpsdir2CpvjyBxbodDtIyz6jRZZItqrOnDLWS4s7LHNptyscAQ4yx8CNIIEGjgj811Yyqxx  
IY0NDvOXWDiRDS3kjWw4JTU3lzMr5I2JEFus2AgrOxYJImY73P81WWPFxJ6cs1xqjNXLzJHefoTC6z4  
cwb4a6IzAkC0kCBvoJygSLrDwuAIc51T8DRbUF18oPY6+nqrGG6qfEY0jMA4TsLCB23MDTzFVO5KkZY  
koO5cX0W+r4VjXPdVcTANk0g5g0zraRYD1NlyNeqXEhjsAbkC7nclxA07aD7rv8XiA9jqnhU5t8xe5s

NFvK2JOu/K5TFVn53DKGkSXWdTDYIBJh0kCQL342Rhfw5/JhbuzGfh3EtaGmTYWlO8Hgf6QawhxAMxa  
dJO8dpWo7EuEhg8xESGjOZuNLjSQLmBcm0ZdWnlmBO4FwPfQn0XSjhkkugcpSmKSZAkgkkgBwjtwpI  
kaKuVp4KqAA2Nbe+ymTa6Kik3yZpCSNXpFriCOVDwzEqhUDTpwlIpiEFYwz4OgKAAPNMaIGnRZxVEC4  
CrQrln5y+YH1QDUSKdACVPLN1Eo9CnaSggamybKDxCka8WaoMEuukBDNFxqtHA4toDs7cxMws6LotDE  
FkwNbJNWhrsOK9zlsCh1FBtW0QhuqISHYQvRKdaNlVzIjHWuihB6zWHTVUyboxqDhBcUITa+6mCDrY  
fU+ygCoucmBcoYssJLABbU+YkSLGbR6AK+azK0F2ZpkSQS7KTb5TbLwQRe3c5FGpqCARB1F+fmEH7rZ  
6NRa82pOJjZzojefKRa2x2UTSSs2xNydhQ9Owssyl4nVrnTImfKcxFraLM6gNDx5SBp2Pb911rqLWMA  
8sAJbkJOjd2ukNABG8Afmux1SSfWdfMwnYHcjv91hjlI9Oaio0gWDrPe0sESQC5x2DAZNtdU2BwbiY  
AymS0OJfJfEudIOABnXsi9OwL2ua8XINg02yvGXzHb8QVjEVocWj5iyjXQzA7Tf2Q5ctRLxQ2W0/9G8x  
lPKGN8wbEwBewABJ35WB1am6oTqZgOc6AloBJAgWJ42vOpM3P6zw2DK0odsXfLJNyXHyuM+o/Mc31bE  
Oc6XuaTGzwyB2aJho2MX121jHB7EeVKKVFV+RoIDy4fjItmd/aXfiH+Isdc3GXVcHOJADQdANB2Rkrp  
IBcCBYBswBqYkIRZAB5E/z6LtxB5EnYNSZTJTtF1bY/NbQBDZKQ9DDhrofoVVrgBxgLRxdQZRlIn7qq  
xhf831ST+jaXSKattqw0RqIQazMroTZDEpiTosHEB5h/1WhhMDF3GRwsk0HC8K3hcY9rgPQQlJOuC4t  
XyWMUxhb5RBERLeyFuYnDteJBgxcLHq077oixTVMC1EbG6kyi7hIsgqyC1TxQjLCrEdhTZSNneisuq/  
4pFd9maQnLkkkEkURjSTZJJJjQgYUC6SkkgrNztkJJJMBwk1JJABAJKaokkkAwKsU8OD8xvwPm79B7n  
2SSSY0HbhYDZgAGrnXj6w32hb/S3D5m17Ns4RAjtJb7WoiSSyycxOrBxJGnjMU5zAQXCZBkEMdGsDVv  
5LBxHI9Pbj9kkksf9p1z7NPA1wGOj5srfdzXAgkb6FVaQDnlzzAg+5O35JJI1XJcpOkA6hMN8pLjDQf  
IIAAmCASddu/qsXHUCXEgAD1AHsCZ/kpJK8Zw5ubsHhMPJJcYaAZdtMaDk30F0Gu5pPlBA76n2GnonS  
WhzPpAmqZdAhJmKfKK2q42CSSGBZGFefmamrUnABvokkoUnZpSogyoW2KZr79/RJJUSFZULPm1Kt12  
ZmghMkkwXQEPLRCLQo5jJSSR8Euw9amlhg9k/gt/gSSQui/p//Z" alt="absolute url">

## - Some Tags for Formatting

```
<b>BOLD</b>

<br>

<i>ITALIC</i>

<br>

<u>UNDERLINE</u>

<br>

<br>

<big>BIG</big>

<br>

<small>SMALL</small>

<br>

<br>

<pre>
  This is
  a
  sample
  HTML
  file... read      it carefully.
</pre>
```

## - Div & Span Tags

```
<div id="parent">
  <div id="child" class="children">

  </div>
  <span id="child2" class="children">

  </span>
</div>
```

## - Lists in HTML

```
<ul>
  <li>Apple</li>
  <ul>
    <li>color : red</li>
    <li>season : winters</li>
  </ul>
  <li>Mango</li>
  <ul>
    <li>color : yellow</li>
    <li>season : summers</li>
  </ul>
  <li>Litchi</li>
</ul>

<ol>
  <li>Apple</li>
  <ol>
    <li>color : red</li>
    <li>season : winters</li>
  </ol>
  <li>Mango</li>
  <ol>
    <li>color : yellow</li>
    <li>season : summers</li>
  </ol>
  <li>Litchi</li>
</ol>
```

## - Tables in HTML

```
<table>
  <thead>
    <caption>
      Student data
    </caption>
    <tr>
      <th colspan="2">INFORMATION</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Shradha</td>
      <td>1664</td>
    </tr>

    <tr>
      <td>Aman</td>
      <td>1680</td>
    </tr>

    <tr>
      <td>Sudhir</td>
      <td>1790</td>
    </tr>
  </tbody>
</table>
```

## - Forms in HTML

```
<h4>Registration Form</h4>
<form action="/action.php">
  <input type="text" placeholder="username" />
  <br />
  <br />
  <input type="password" placeholder="password" />
  <br /><br />
  <h5>Select your class</h5>
  <label for="101">
    <input type="radio" value="class XI" name="class" id="101" />class XI
  </label>
```

```
<br /><br />
<label for="102">
  <input type="radio" value="class XII" name="class" id="102" />class XII
</label>

<br /><br />
<h5>Select Fav Subjects</h5>
<label for="math">
  <input type="checkbox" value="math" name="subject" id="101" /> Math
</label>
<br /><br />
<label for="phy">
  <input type="checkbox" value="phy" name="subject" id="102" /> Physics
</label>
<br /><br />
<label for="chem">
  <input type="checkbox" value="chem" name="subject" id="103" /> Chemistry
</label>
<br /><br />
<label for="CS">
  <input type="checkbox" value="CS" name="subject" id="104" /> Computer
  Science
</label>
<br /><br />
Select your city
<select name="city">
  <option value="Delhi">Delhi</option>
  <option value="Banglore">Banglore</option>
  <option value="Pune">Pune</option>
  <option value="Mumbai">Mumbai</option>
</select>

<br /><br />
<textarea
  name="feedback"
  id="101"
  placeholder="please give your valuable feedback here"
  rows="5"
></textarea>
<br />
<input type="submit" value="submit" />
</form>
```

## - iFrame in HTML

```
<iframe
  width="560"
  height="315"
  src="https://www.youtube.com/embed/UmnCZ7-9yDY"
  title="YouTube video player"
  frameborder="0"
  allow="accelerometer; autoplay; clipboard-write; encrypted-media;
gyroscope; picture-in-picture"
  allowfullscreen
></iframe>
<br /><br />
<iframe
  width="560"
  height="315"
  src="https://en.wikipedia.org/wiki/India"
></iframe>
```

## - Video Tag in HTML

```
<video width="560" height="315" src="/myVideo.mov" controls autoplay>
  my video
</video>
```