HTML

Skeletal structure :

```
<!DOCTYPE html>
<html>
    <head>

    </head>
    <body>
    </body>

</html>
```

!DOCTYPE - Tells web browser as an html file

Head - Meta info for the document (think like settings for document)

Body - This is where all our content goes

.html extension

```
<!DOCTYPE html>
<html>
    <head>
        <title>The Best Website</title>

    </head>
    <body>
        Welcome to my website :D
    </body>

</html>
```

<P align=left > Hell </ P>

← Tag   ← Attribute   ← Tag

Element

```
<!DOCTYPE html>
<html>
    <head>
        <title>The Best Website</title>

    </head>
    <body>
        <!--This is a comment-->          ← "Comment"!
        <h1>Heading1</h1>
        <hr>
        <h2>Heading2</h2>
        <hr>
        <h3>Heading3</h3>
        <h4>Heading4</h4>
        <h5>Heading5</h5>
        <h6>Heading6</h6>
        <br><br>
        <p>&nbsp&nbsp&nbsp&nbspLorem ipsum dolor sit
            amet consectetur adipisicing elit.</p>
            Accusantium illum ad sit aperiam quis consequatur nam numquam odit.

    </body>

</html>

<!--heading (6)
br = line break
hr = own seperate section
&nbsp = non breaking space-->
```

Heading1

Heading2

Heading3

Heading4

Heading5

Heading6

Lorem ipsum dolor sit amet consectetur adipisicing elit.

Accusantium illum ad sit aperiam quis consequatur nam numquam odit.

Self-closing tag

< hr >   Horizontal rule

Chapters

Chapter NO 1
Chapter NO 2

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>My PAGE</title>
5      </head>
6      <body>
7  <h1>Chapters</h1>
8  <hr>
9  <p>Chapter NO. 1</p>
10 <p>Chapter NO. 2</p>
11     </body>
12 </html>
```

< br >   Break line   goes to next line

Chapter No. 1
Chapter No. 2
Chapter No. 3

```
4          <title>My PAGE</title>
5      </head>
6      <body>
7  <h1>Chapters</h1>
8  <hr/>
9  <p>Chapter No.
10 Chapter No. 2 <br> Chapter No.3 </p>
11     </body>
12 </html>
```

Block level element and inline element

This is a text

This is a H1 TAG   `<h1>`

This is a H1 TAG   `<P>`

This is a bold text Hello   `<B>`

.

```html
<head>
  <title>My PAGE</title>
</head>
<body>
  <q cite="www.quote.com">Here is some quote</q>
  <blockquote>
    Some special quote. It makes you quote much more meaningfl
  </blockquote>
  <cite>Albert Eintien</cite>
  <h2>Python</h2>
  <dfn>Python is a scripting and a high-level programming language</dfn>
  <br />
  <abbr title="It's a markup language">HTML</abbr> was founded in 1948
</body>
</html>
```
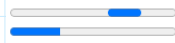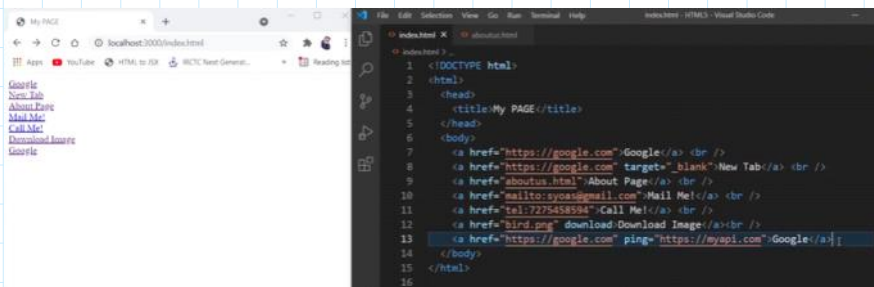
Can get quotes from that website

"Here is some quote"

Some special quote. It makes you quote much more meaningfl

Albert Eintien

Python

Python is a scripting and a high-level programming language
HTML was founded in 1948

It's a markup language

```html
</head>
<body>
    <progress ></progress><br>
    <progress value="30" max="100"></progress>
</body>
</html>
```

Progress bar

Anchor tags :

```html
<!DOCTYPE html>
<html>
  <head>
    <title>My PAGE</title>
  </head>
  <body>
    <a href="https://google.com">Google</a> <br />
    <a href="https://google.com" target="_blank">New Tab</a> <br />
    <a href="aboutus.html">About Page</a> <br />
    <a href="mailto:syoas@gmail.com">Mail Me!</a> <br />
    <a href="tel:7275458594">Call Me!</a> <br />
    <a href="bird.png" download>Download Image</a><br />
    <a href="https://google.com" ping="https://myapi.com">Google</a>
  </body>
</html>
```

Google
New Tab
About Page
Mail Me!
Call Me!
Download Image
Google

Mail to :

Opens mail with your
Mail id.

Breakfast Menu

Milk)dt

Milk is of Cow

Cheese

(Cheese is from Farm) dd

Bread

We only offer brown bread

[descriptive (list)

```html
2   <html>
3       <head>
4           <title>My PAGE</title>
5       </head>
6       <body>
7           <p>Breakfast Menu</p>
8           <dl>
9               <dt>Milk</dt>
10              <dd>Milk is of Cow</dd>
11              <dt>Cheese</dt>
12              <dd>Cheese is from Farm</dd>
13              <dt>Bread</dt>
14              <dd>We only offer brown bread</dd>
15          </dl>
16      </body>
17  </html>
18
```

Text formatting elements

```html
<body>
    This is normal text
    <br>
    This is <b>bold</b> text <br>
    This is <i>italic text</i> <br>
    This is <sub>subscript</sub> text <br>
    This is <sup>superscript</sup> text <br>
    This is <small>small</small> text <br>
    This is <big>big</big> text <br>
    This is <ins>inserted</ins> text <br>
    This is <del>deleted</del> text <br>
    This is <mark>marked</mark> text <br>
</body>
```

This is normal text
This is **bold** text
This is *italic text*
This is subscript text
This is superscript text
This is small text
This is big text
This is inserted text
This is deleted text
This is marked text

Links and adding images

```html
<body>
    <a href="https://www.google.com" target=_blank>
        If you click on this, u will go to google
    </a><br><br>

    <a href="pizza.png" download="filename">
        download a meme
    </a><br><br>

    <img src="hamburger_85x85.png" height=%50 width=%50 alt="This is a pic">

    <a href="https://www.google.com" target=_blank>
        <img src="hotdog.png" height=%50 width=%50 alt="this is a hotdog pic">
    </a>
</body>
```
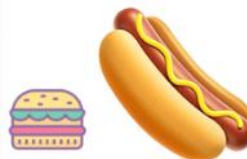
If you click on this, u will go to google

download a meme

Link <a>

Hyper link <a herf=" ">

Target=_blank open link in tab

img src=" " alt="we can set an alternative"

Lists

```html
<body>
    <!--Unordered list-->
    <h3>Grocery list</h3>
    <ul style="list-style-type: disc;">
        <li>bread</li>
        <li>tomato</li>
        <li>cheese</li>
    </ul>

    <!--Ordered list-->
    <h3>My to-do-list</h3>
    <ol type="1" start="100">
        <li>brushing teeth</li>
        <li>bathing</li>
        <li>eating</li>
    </ol>

    <!--Description list-->
    <h3>Web Dev languages</h3>
    <dl>
        <dt>HTML</dt>
        <dd>-adds structure to webpage</dd>
        <dt>CSS</dt>
        <dd>-adds style to webpage</dd>
        <dt>Javascript</dt>
        <dd>-add functionality to webpage</dd>
    </dl>

    <!--ex. of  a nested list-->
    <h3>Shopping list 2.0</h3>
    <ul style="list-style-type: disc;">
        <li>bread</li>
        <li>tomato</li>
        <li>phone
            <ul>
                <li>iphone</li>
                <li>samsung</li>
                <li>google pixels</li>
            </ul>
        </li>
    </ul>
</body>
```

Unordered list

Ordered lists

Description list
- Descriptive term(side heading)
- Description details(description)

Text scrolls with it

```html
<marquee>New Website</marquee>
```

Tables

```html
<body>
    <table border="2" bgcolor="red" height =150 width=100%>
        <tr bgcolor="orange" align=center>
            <th>MONTH:</th>
            <th>OCTOBER</th>
            <th>NOVEMBER</th>
            <th>DECEMBER</th>
        </tr>
        <tr bgcolor="green" align=center>
            <th>Income:</th>
            <td>500</td>
            <td>1500</td>
            <td>4lkh</td>
        </tr>
        <tr bgcolor="yellow" align=center>
            <th>Expenses:</th>
            <td>-100</td>
            <td>-500</td>
            <td>-5000</td>
        </tr>

    </table>
</body>
```

tr - table row

th - table heading

td - table data

Align - center, left, right

Border - 2px

Audio files

```html
<head>
    <title>Best website</title>
</head>
<body>

    <audio controls  loop muted autoplay>
        <source src="Arcade x Mann Mera Mashup Full Version  Gravero.mp3">
        your brower dosen't support audio
    </audio>

</body>
```

Audio library.com

Controls - gives controls options

Loop - music loop

Muted - stays mute until we unmute

AutoPlay - plays automatically when opening the website

```
HTML5 only supports these audio
files:

  • .mp3      (.mp4 audio is also compatible?)

  • .wav

  • .ogg
```

Manbhariya x Arcade

▶ 0:00 / 3:10 —————— 🔊 ⋮

Manbhariya x Arcade

▶ 0:24 / 3:10 —————— 🔊 ⋮

Manbhariya x Arcade

▶ 0:00 / 3:10 —————— 🔊 ⋮

Video files

```
<body>
    <video width=100% controls muted loop autoplay>
        <source src="Get You The Moon x Khairiyat (Gravero Revibe) -
    </video>
</body>
```

Controls - gives controls options

Loop - music loop

Muted - stays mute until we unmute

AutoPlay - plays automatically when opening the website

```
HTML5 only supports these video
files:

  • .mp4

  • .webM

  • .ogg
```

Buttons

```
<body>
    <button name="simple_button" type="button">
        click me :)
    </button>

    <button name="Submit_button" type="submit">
        submit
    </button>

    <button name="Reset_button" type="reset">
        Reset
    </button>

    <button disabled>
        Disabled
    </button>

    <button autofocus>
        autofocus
    </button>

    <button onclick="alert('You licked on the wrong button')">
        Alert
    </button>

    <button><a href="https://www.google.com">
        Google
    </a>
    </button>
    <br>
    <br>
    <button style="background-color: ■darkcyan;    CSS style
                   color: ■darkturquoise;
                   font-family: 'Courier New', Courier, monospace;
                   font-size: 18px;">
        CSS STYLE
    </button>
```

Disabled makes the button disabled

Autofocus makes the button highlight itself

Alert("shows an alert pop up")

[click me :)] [submit] [Reset] [Disabled] [autofocus] [Alert] [Google]

[CSS STYLE]

Forms

```
<form action="DO_SOMETHING.PHP">

    <label for="first_name">First Name:</label>
    <input type="text" id="first_name" name="first_name"
    placeholder="joe p">

    <br><br>

    <input type="reset">

    <br><br>

    <input type="submit">
</form>
```

Both label and textbox are linked

id - client side identifier

Name - "id and name to be same" used for form submitting, to post or get some value

Placeholder used for the user know what kind of format want them to enter

Action - going to send the information to the page listed in action

```
<form>
    <label for="title">Title:</label>

    <label for="Mr.">Mr.</label>
    <input type="radio" id="Mr." value="Mr." name="same">

    <label for="Mrs.">Mrs.</label>
    <input type="radio" id="Mrs." value="Mrs." name="same">

    <label for="Miss.">Miss.</label>
    <input type="radio" id="Miss." value="Miss." name="same">

    <label for="PhD">PhD</label>
    <input type="radio" id="PhD" value="PhD" name="same">
</form>
```

Title: Mr. ○ Mrs. ○ Miss. ○ PhD ●

```
<label for="payment">Payment:</label>

<select>
    <option value="visa">visa</option>
    <option value="mastercard">mastercard</option>
    <option value="cupon">cupon</option>
    <option value="giftcard">giftcard</option>
</select>
```

Payment: [visa ▾]
visa
mastercard
cupon
giftcard

Options - gives drop down options

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

    <input type="submit">
</form>
```

Email: [fe] [Submit]
⚠ Please include an '@' in the email address. 'fe' is missing an '@'.

```
<form>
    <label for="birthday">Birthday</label>
    <input type="date" id="birthday" name="birthday">
</form>
```

Birthday [mm/dd/yyyy 📅]

```
<form>
    <label for="quantity">Quantity:</label>
    <input type="number" id="quantity" name="quantity" min="0" max="99">
</form>
```

Quantity: [0]

```
<form>
    <label for="phone">PhoneNumber:</label>
    <input type="tel" id="phone" name="phone">
</form>
```

PhoneNumber: [   ]

```
<form>
    <label for="pass">Password</label>
    <input type="password" id="pass" name="password" maxlength="12">
</form>
```

Password [   ]

```
<form>
    <label for="slider">Rate us:</label>
    1<input type="range" step="25" value="100">5
</form>
```

Rate us: 1 ●—— 5

```
<form>
    <label for="myfile">upload a file:</label>
    <input type="file" id="myfile" name="myfile" accept=".txt">
</form>
```

upload a file: [Choose File] No file chosen

Accept - accepts only txt files

```
<form>
    <label for="sub">Subscribe</label>
    <input type="checkbox" name="sub" id="sub">
</form>
```

Subscribe ☑

Forms

Personal detail
Enter your user name [UserName]
Enter your age [Age]

Male ○ Female ○

} **Field set**

```
Select cars
<select name="cars">
    <option value="audi">Audi</option>
    <option value="bmw">BMW</option>
    <option value="mustang">Mustang</option>
</select>
<br><br>
```

Select File [Choose File] No file chosen
Select your prefered salutation
hello ☐ hi ☐
Date of birth [mm/dd/yyyy ☐]
Select cars [Audi ▾]
Address
[Hello]
Volume [━━●━━━]
Password [Password]
MailID [xyz@gmail.com]
Phone [phn]
[Submit] [Reset]

```
    <label for="gender">Male</label>
    <input type="radio" value="male" name="gender">
    <label for="gender">Female</label>
    <input type="radio" value="female" name="gender"><br><br>
</fieldset>
<br><br>
```

Meta tags

```
<head>
    <title>Best website</title>
    <meta charset="UTF-8">
    <meta name="keywords" content="Bro,Html,tutorial,Code">
    <meta name="description" content="Bro code HTML tutorial for begineers">
    <meta name="author" content="Bose P">
    <meta name="viewport" content="width=device-width,inital-scale=1.0">
    <meta http-equiv="refresh" content="30">
</head>
```

Like What our HTML Contains

A meta tag is a lot like a regular HTML tag, except the word 'meta' means 'about'

→ *Fits according to size*

→ Refresh the webpage with our preferred number of seconds

Charset   --   To display an HTML page correctly, a web browser must know which character set to use.

Data about data

The viewport is the user's visible area of a web page.

HTML5 introduced a method to let web designers take control over the viewport, through the `<meta>` tag.

You should include the following `<meta>` viewport element in all your web pages:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

This gives the browser instructions on how to control the page's dimensions and scaling.

The `width=device-width` part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

The `initial-scale=1.0` part sets the initial zoom level when the page is first loaded by the browser.

Colors

```
<body style="background-color: ■#68d6d2;">
    <h1 style="background-color: ■#f9765c;
            color: ■#6eb4cc;">Colors in HTML </h1>
    <p style="color: ■#4fc1ff;background-color: □#02263b;">Lore
    <br>
    <p style="color: ■#1ad63c;background-color: □black;">Lorem
</body>
```

Entering into CSS

Span tag

Lorem ipsum dolor amet consectetur adipisicing elit. Accusantium nisi cupiditate quasi ut

Div tag

Lorem ipsum dolor sit

consectetur adipisicing elit.
Hic at impedit deleniti, laborum id asperiores velit fuga, commodi cum rem mollitia. Ipsa,

Span and Div tags

```
<body>
    <h1>Span tag</h1>
    <p>Lorem ipsum dolor <span style="color: ■red;"> amet consectetur adipisicing elit.</span> Accusan
    <h1>Div tag</h1>
    <p>Lorem ipsum dolor sit <div style="color: ■red;"> consectetur adipisicing elit.</div> Hic at im
</body>
```

Span tag - A <span> element which is used to color a part of a text:

Div tag -   By default, browsers always place a line break before and after the <div> element.

Iframe

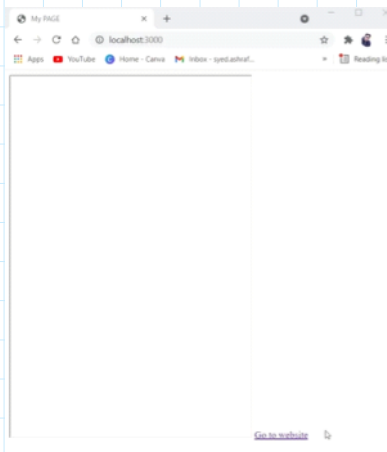➢ Embed content from another source into an HTML document

Ex. Used for ads, used in many hacking techniques...

Iframe

➢ Embed content from another source into an HTML document

Ex. Used for ads, used in many hacking techniques...

```
<head>
    <title>IDK</title>
</head>
<body>
    <iframe src="https://www.bing.com" width="50%" height="50%"></iframe>
</body>
```



```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>My PAGE</title>
5    </head>
6    <body>
7      <iframe height="600" width="400" title="W3 Website" name="w3"></iframe>
8      <a href="https://www.w3.org/" target="w3">Go to website</a>
9    </body>
10 </html>
11
```
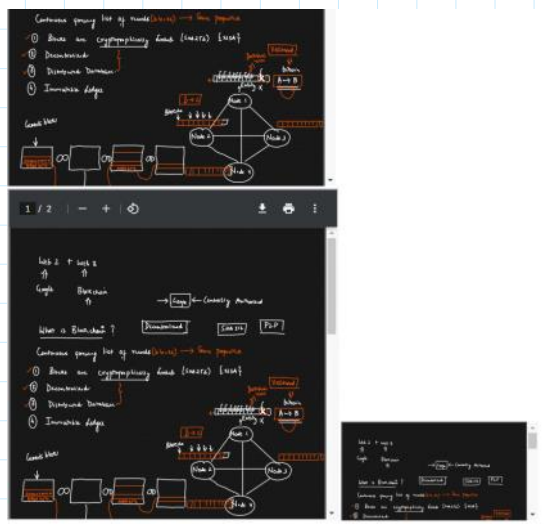

Embed :

```
<embed src="1-blockchain.pdf" type="application/pdf" width="500" height="500"><br>
<iframe src="1-blockchain.pdf" width="500" height="500"></iframe>
<object data="1-blockchain.pdf" ></object>
```


Embed
↳ Inserting