* Table
* Table is used to store the data in the form of rows and column
* Table is divided into 3 parts
1 Table head
2 Table body
3 Table foot

1 Table head
It is used to group only header content

2 Table body
Is used to add main data to the table

3 Tfoot
It gives summary of the table

* Tr (Table row)
Which creates row for the table

* Td (Table data)
Which states cell data of the da table.

* Colgroup
It is a group of a column which holds each and every column

* col tag
Which specify each & every column.

```
<Table>
<colgroup>
<col>
<col>
</colgroup>
<thead> - - - - -.
<td></td>
</tr>


</thead> - - - - -.
<tbody> -
<tr>
<td></td>
</tr>
</tbod> - - - - -.
<tfoot> - - - - -
<tr>
<td></td>
</tr>
</tfoot> - - - - -
</table>
```

- list colspan: Merging 1 or more columns into a single cell it is called as colspan
- Rowspan:- Merging 1 or more rows into a single cell is called as rowspan.
- cellspacing: space between each and every cell which called as cellspacing
- cellpadding: space beth cell & the content is called as cellpadding.
- border is an attr passed to table & is compulsory.
  border attr creates inner cells for a table

& to remove this we need to pass border collapse css property.

• **List**

List is a arranging or grouping set of a related items.

It may be in a priority or non-priority manner.

List are divided into 4 types

i) ordered list:-

It is used to arranged the data in a sequential manner & it is represented by ol

  it acts like a container.

- Syntax:

* li tag <li> :

Each and every item is represented by list tag.

& Attributes used in ol tag:

i) Type attribute - This attr specify what kind of marker is neccessary. and it has

- 1
- A
- a
- I
- i

The default value for type attribute is 1.

II) Start att^r

It specify the start value of a marker & it takes only number

III) reversed att^r

It reverses the markers

* To create a product Id pass triple digit to Start attribute.

* Unordered List or Bulleted List :-
Arranging the items in a non-sequential order, means it doesn't have any priority

- Syntax :-

. Type att^r values for ul :- Disc
                                 Square
                                 circle

. Default value for ul is Disc

. We can convert unordered list into ordered list ↑ using list-style-type property.

. We can add image as a marker using list-style-img property

If we add border to any list item the marker will remain outside the border, to get it inside the border we use list-style-position property.

* To change the colour of a marker we should use selector.

* Descriptive List:-
It is used to hold description of any item
syntax:- <dl>
        <dd> </dd> <dt> product details </dt>.
            </dl>

• dt (<dt> </dt>) · descriptive term
→ Which defines a term & also acts like a title

• dd (descriptive data):-
It describes the descriptive term.

* Nested List
A list within a list is called as nested list
synt Example

* Ways to Style HTML

1. Inline css → This is used to style html element.
   - The styling is given in the same line of html opening tag using style attribute.
     ex: `<h1 style="background-color"> </h1>`

2. Internal css → styling is provided in a same html file but it is mentioned in head sect^n & inside style tag
   Syntax: `<style>`

   Tag name {

       property : value.

   }

   `</style>`

3. External css → styling is done by creating separate .css file using link tag
   → `<link rel="stylesheet" href=" pass the cssfile">`

4. to add an image besides document use
   `<link`
   `rel="icon"`
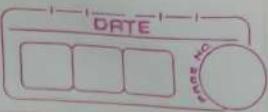   `href="../asset/imag.jpg"`
   `type="image/x-icon">`

   ☐ Dccument × \ /   +

   ← Browser.

* Multimedia Tags

Multi means many media means way to comm-
unicate ie multimedia tags are used to comm
unicate with the user.

* It is used to embed audio, video, google maps,
QR codes, barcode and other types of multim-
edia content into webpages types of multim-
edia.

- i) Audio tag :- It is used to embed audio file.
upon any application.
\<audio controls muted autoplay loop \>\</audio\>
- src attribute :- It will take path of an audio
file
- controls attribute :- It will give the control to play
and pause the audio file to the user is
(it is compulsory to add to the audio file else
audio file will not be visible upon the browser
- muted attribute :- This will provide a muted
icon by default to the audio tag
- autoplay :- every time the page refreshes the
audio song will automatically start playing but
muted attribute should be added for autoplay
to work.   audio
- loop att :- It specify that the audio video will start
again & again every time the song is finished

2. ***** Video Tag :- Same attribute as audio.

3. Poster Attribute :- It is used to add an image before the video could play (Acts like a thumbnail).

- Controls List Attribute: It is used to blocklist some controls given to the user. We pass to values
  1) No Download (Not allowing the user to download the content)
  2) No fullscreen: This will disable the fullscreen option.

- iframe Tag : It is used to embed videos and google map upon the browser.

* How to embed a video ?
→ Go to browser and type any video on youtube click upon the video and open the share tab & click upon embed a code, copy the iframe code. and paste it on visual studio.

* How to embed a google map?
Go to the browser type any location name and click upon maps, tag tab & there click upon share button, click upon embed a code button from there copy the iframe code & paste it upon visual studio.

- Image Tag: It is used not to just embed an image but also to create a QR code.

* How to create QR code?
-> Take an img tag inside source att^r pass a path, path(qr server library link)

-> From qr server library link select the first op^n QR code api & click upon it, copy the complete url from a QR code api & paste it inside SRC, from that link remove example text & paste any appl^n link for which the QR code should be created.

* Canvas Tag & Script Tag
  Canvas tag is used to hold any graphics & script tag is used to execute the canvas tag & also to execute cdn links.

* How to create a barcode?
  Target the canvas tag using Id att^r and pass the value inside script tag.
- Script tag -> Inside this tag JsBarcode (J&B should be uppercase), Then within the braces pass Id att^r value and some random value within the double quote.
- Since to create a barcode already there are pre-written quotes. So we need to paste JsBarcode cdn library link inside head tag.

* **Semantic Tags :** Which clearly describes its meaning to both browser to $ to the developer.

Basically it is used to increase search engine optimisation ranking of any appln.

H - Header
D - Details
A - Article
M - Main
N - Nav
S - Section
T - Time
A - Aside
F - Figure
F - Figcaption
f - Footer
S - Summary

1. Header Tag :- It consists of introductory content. searchbar, appln logo, minor links and some icons.
It should be at the top of any appln, it acts like a container to hold elements

2. Nav Tag :- It is used to hold major blocks of navigational links.
~~Aside tag~~

3. Aside Tag :- It is a container for some content ie minor or indirect details related to an appln ~~main tag~~.

4. Main Tag: It holds main content of a document which is imp & unique.

5. Article tag: It contains independent and imp major details related to an application.

6. Section Tag: It defines a part for a section of a main document.

7. Footer Tag: It acts like a container to contact info, copyright info, authorship info & back to top links.

8. figure Tag: It holds pictures or images, any diagram & codelistings also

9. Fig caption: It is a title given to figure tag.

10. Details Tag: It defines additional details that the user can view or hide.

11. Summary Tag: It is a visible heading for a details tag.

12. Time Tag: Which will specify the time.