Day-3 HTML Level-2

Saturday, April 26, 2025   6:04 AM

Name	Type
0. Topic List.jpg	JPG File
01. Inline vs Block.mp4	MP4 Video File (VLC)
02. Div Element.mp4	MP4 Video File (VLC)
03. Span Element.mp4	MP4 Video File (VLC)
04. Hr Tag.mp4	MP4 Video File (VLC)
05. Sup & Sub Tags.mp4	MP4 Video File (VLC)
06. Practice Qs.mp4	MP4 Video File (VLC)
07. Semantic Markup.mp4	MP4 Video File (VLC)
08. Semantic Tags.mp4	MP4 Video File (VLC)
09. Practice Qs.mp4	MP4 Video File (VLC)
10. HTML Entities.mp4	MP4 Video File (VLC)
11. Practice Qs.mp4	MP4 Video File (VLC)
12. Emmets.mp4	MP4 Video File (VLC)
13. Further Understanding HTML.mp4	MP4 Video File (VLC)
14.HTML Level 2 (Qs).pdf	Microsoft Edge PDF Docun
15.HTML Level 2 (Ans).pdf	Microsoft Edge PDF Docun

CLASS 1: INLINE VS BLOCK LINE

Block element: take 1 line completely.
Inline element: not take 1 line completely, just take
 necessary width.

=====

Heading element: it take 1 line completely. So it is block element.

Paragraph element: it also take 1 line completely. So Block element.

===

Anchore tag: it is inline element. Because they are same line
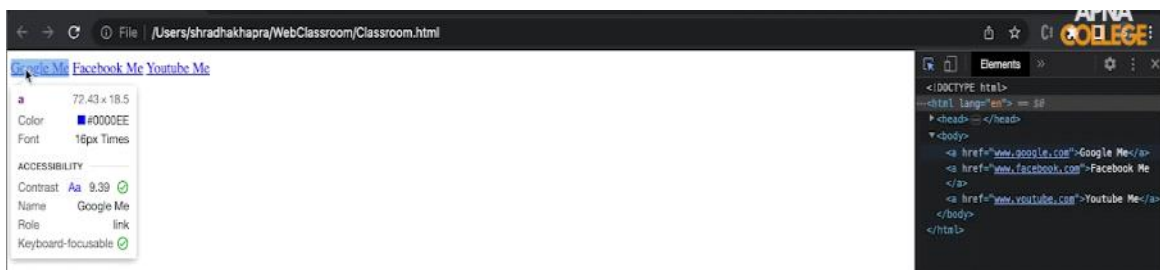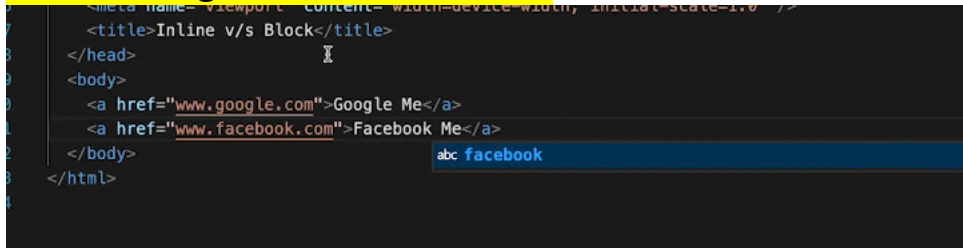
Here , Google me take just necessary part which it's needed.
====
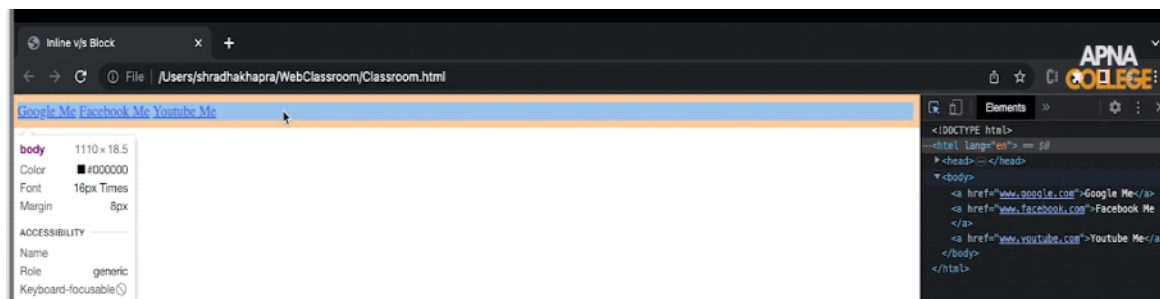
Here, this is come because body tag: ::note body tag is : block element.

==

Image tag: inline element.

This is an image

```
img                    612 × 563
ACCESSIBILITY
Name
Role                         img
Keyboard-focusable ⊘
```
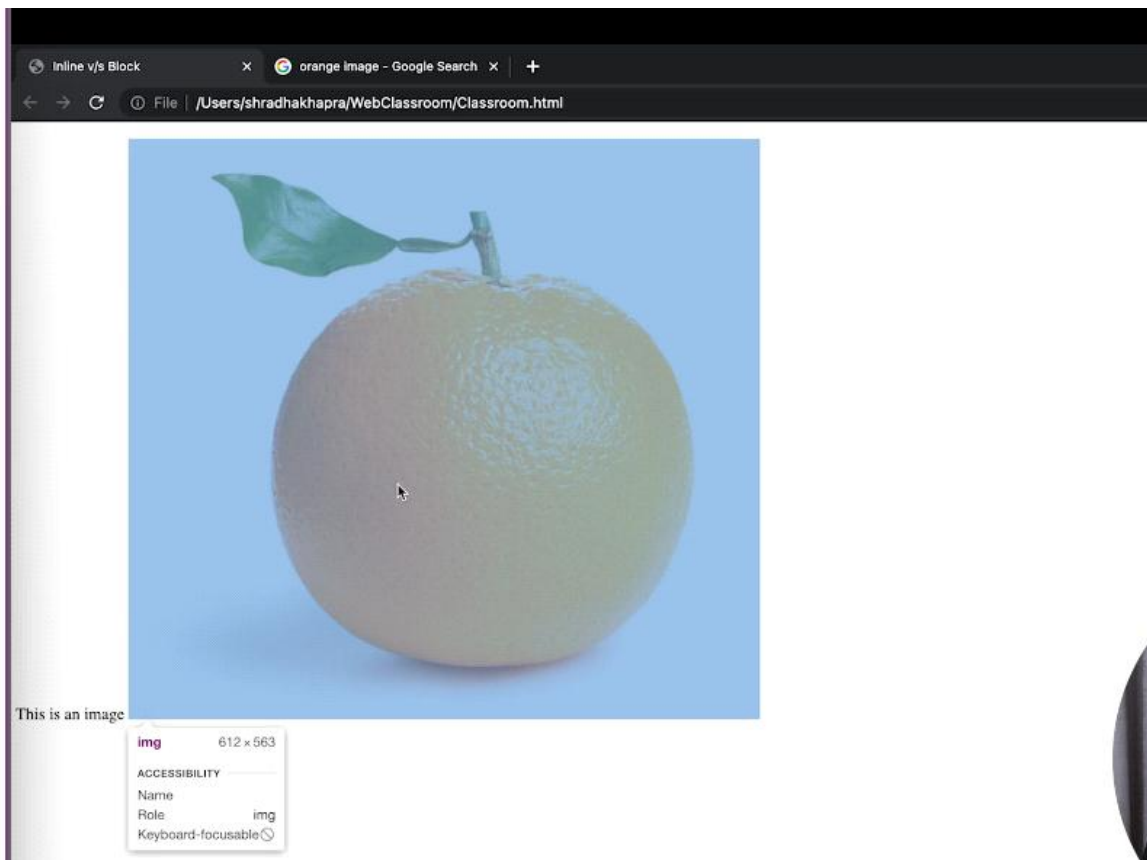
==Take just necessary space, don't take all width.==


```
img                    272 × 280
ACCESSIBILITY
Name
Role                         img
Keyboard-focusable ⊘
```

==Two image display in the same line. So, it is inline element.==
======

==Class 2: Div element (== content division element)

It is used for separate necessary part.

Div Element

content division element

Div is a **container** used to hold other HTML elements or group elements together

It is a **block** Element

```html
    <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>Inline v/s Block</title>
  </head>
  <body>
    <div>
      <a href="www.google.com">Google</a>
      <a href="www.youtube.com">Youtube</a>
    </div>

    <a href="www.facebook.com">Facebook</a>
  </body>
```

File | /Users/shradhakhapra/WebClassroom/Classroom.html

Google Youtube
Facebook

Div: it used for create group . Here, google.com , youtube.com are in same group , it create 1 div.
==
Website: is collection of div.
===

Class 3: Span element

Span Element

Span is also a generic **container** used to hold other HTML elements or group elements together

It is an **inline** Element

Span element: it also used for creating group , same as block element. But SPAN IS inline element.

```
    <title>Inline v/s Block</title>
  </head>
  <body>
    <span>
      <a href="www.google.com">Google</a>
      <a href="www.youtube.com">Youtube</a>
    </span>

    <a href="www.facebook.com">Facebook</a>
  </body>
```
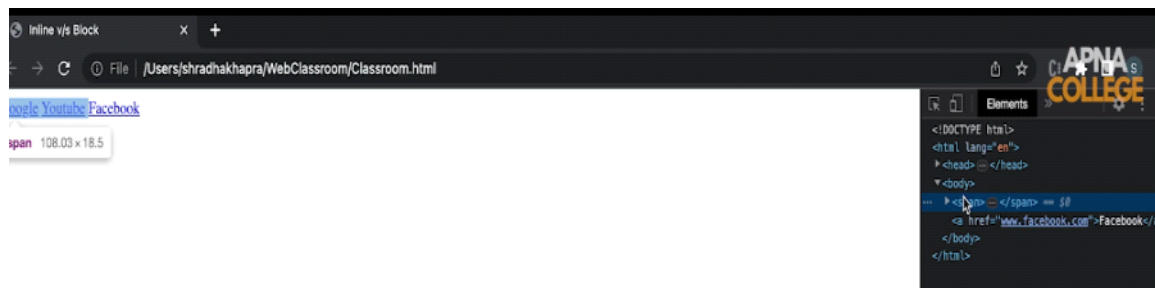

Google, youtube are in group here. Facebook are same line.
=====

```
    <title>Inline v/s Block</title>
  </head>
  <body>
    <p>This is my name which is Shradha Khapra.</p>
    <p>I am your web development teacher.</p>
    <hr>
    <p>I teach you on Apna College.</p>
    <p>I love coding.</p>
  </body>
```

This is my name which is Shradha Khapra.

I am your web development teacher.

I teach you on Apna College.

I love coding.

Shradha Khapra

I love to teach:-)

Education

- **Class X** (CBSE) : 10 CGPA
- **Class XII** (CBSE) : 94.4%
- **B.Tech** (NSIT, Delhi): 8.9 CGPA

Skills

- HTML, CSS, JavaScript, Bootstrap
- ReactJS
- NodeJS, MySQL, MongoDB

Hobbies

- Reading Books
- Debating

Contact

- **Email** - hello@apnacollege.in
- LinkedIn

05. Sup & Sub Tags.mp4

```html
</head>
<body>
    <h1>a<sup>2</sup></h1>
    <h1>H<sub>2</sub>0</h1>
</body>
</html>
```

Obj
Object

H1 tag is: parent tag, and h1's child is : sub.

a^2

H_2O

=====

Class 6: Practice question

Practice Qs 4

Print the following on the screen using <h1> heading elements

Pythagoras theorem says $a^2 + b^2 = c^2$

Formula for glucose is $C_6H_{12}O_6$

```
<body>
  <h1>
    Pythagoras theorem says a<sup>2</sup> + b<sup>2</sup> = c<sup>2</sup>
  </h1>
  <h1> Formula for glucose is C<sub>6</sub>H<sub>12</sub>O<sub>6</sub></h1>
</body>
```

===

Class 7 : semantic Markup

Sementic tag: we can easily understand by see this tag.

Non-semantic tag: we can't understand by see this tag.

Semantic Markup

it is the markup that relates to the meaning of content

semantic
<h1>
<p>
<img>

non-semantic
<div>
<span>
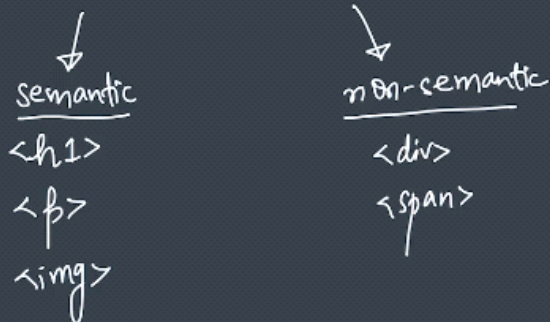
Note: : header and footer are symentic tag.
A good website always uses header and footer tag

SEO: symentic tag make website:: SEO friendly.
Because SEO search symentic tag.

Symentic tag: -make meaning full
              - more readable
                 - screen reader user's feel good.

==============

Class : 8 Symentic tag introduction

Semantic Markup

`<header> </header>`

`<main> </main>`

`<footer> </footer>`

`<nav> </nav>`

Header tag:

```
</head>
<body>
  <header>
    Apna College <a href="www.apnacollege.in">go to main page</a>
  </header>
</body>
```

Apna College go to main page

html   1126 x 34 5
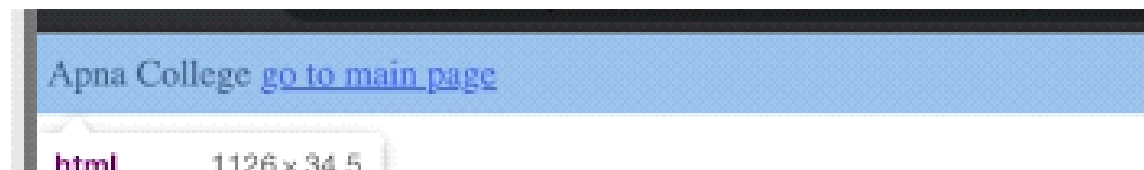
========
Main tag:

It used for display major part.

Header , navigation part are separate, not main part.

Main tag: used for display main contenet. Main explaination which is used

to describe about the movie or main part which is used to display description.

```
<!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>HTML - Level 2</title>
  </head>
  <body>
    <header>Apna College</header>
    <main>This is my main content.</main>
  </body>
</html>
```

Apna College
This is my main content.

```
main        1110 × 18.5
Color       ■ #000000
Font        16px Times

ACCESSIBILITY
Contrast    Aa  21  ⊘
Name
Role                main
Keyboard-focusable⊘
```

=======
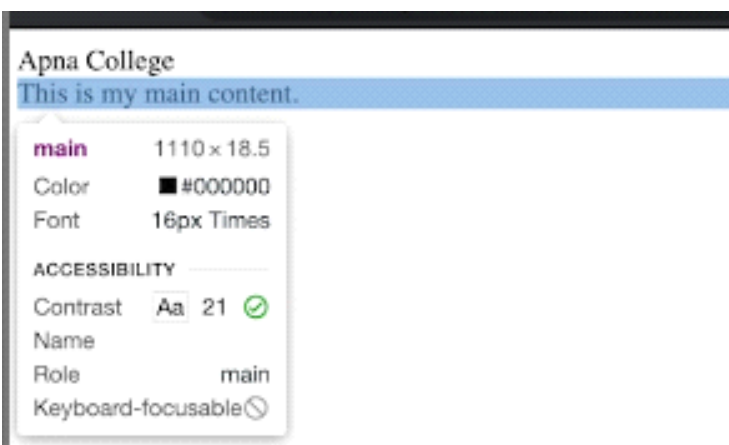
Footer tag: it comes bottom on the website.

It gives contact information like facebook link , instagram link,

```
  </head>
  <body>
    <header>Apna College</header>
    <main>This is my main content.</main>
    <footer>Made with &hearts;</footer>
  </body>
</html>
```

```
☰ &hearts;
☰ &heartsuit;
```

Apna College
This is my main content.
Made with ♥

===================

note: in a website : main, footer, header -> comes only 1 times usually.

===========

<nav> </nav> tag:

used for create navigation . To create link FOR GOINIG 1 website to
another website.
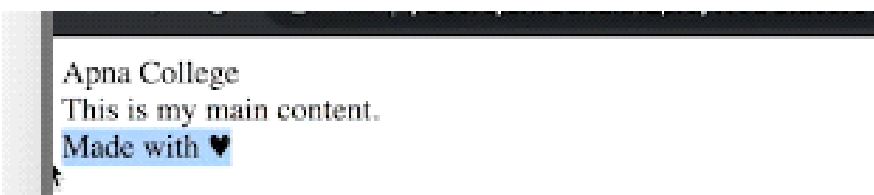
In this page left side part are cerate link : for going other pages

Contents [hide]

(Top)

Plot

Cast

> Production

Music

> Marketing

> Release

> Reception

Sequels

See also

Notes

References

External links

THE

Article

From

"

Marv

and I

supe

Motic

Whe

Hems

Skars

Steve

Thor'

The f

succi

2011

Nort

Rom:

Bruc

April

THEY ARE WHICH ARE INCLUDED NAV TAG:

Top
Plot
Cast
Production
Are link here.

========
All are included in nav tag:

=====
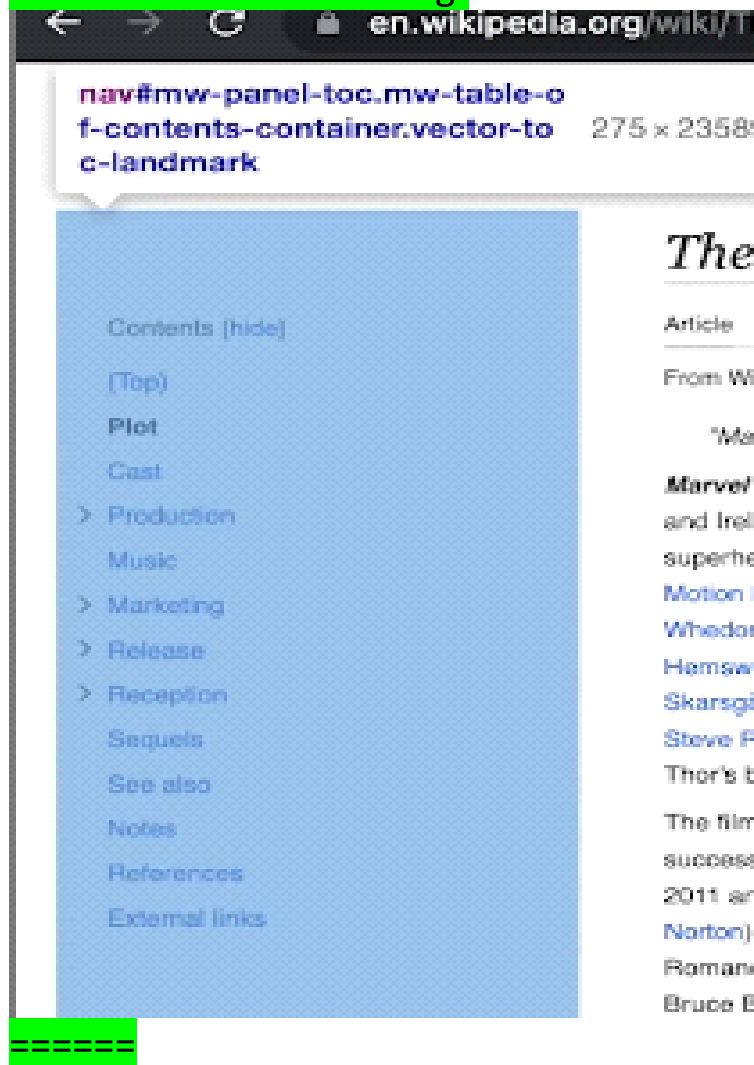
We can create nav tag : inside the header tag.

```
    <title>HTML - Level 2</title>
  </head>
<body>
  <header>
    Apna College
    <nav>
      <ul>
        <li><a href="/about.html">About Us</a></li>
        <li><a href="/contact.html">Contact Us</a></li>
      </ul>
    </nav>
  </header>
  <main>This is my main content.</main>
  <footer>Made with &hearts;</footer>
</body>
```

Apna College

- About Us
- Contact Us

This is my main content.
Made with ♥

==

Semantic Markup

<article> </article>

<section> </section>

<aside> </aside>

Aside tag: create link which content is indirectly related with the Website.
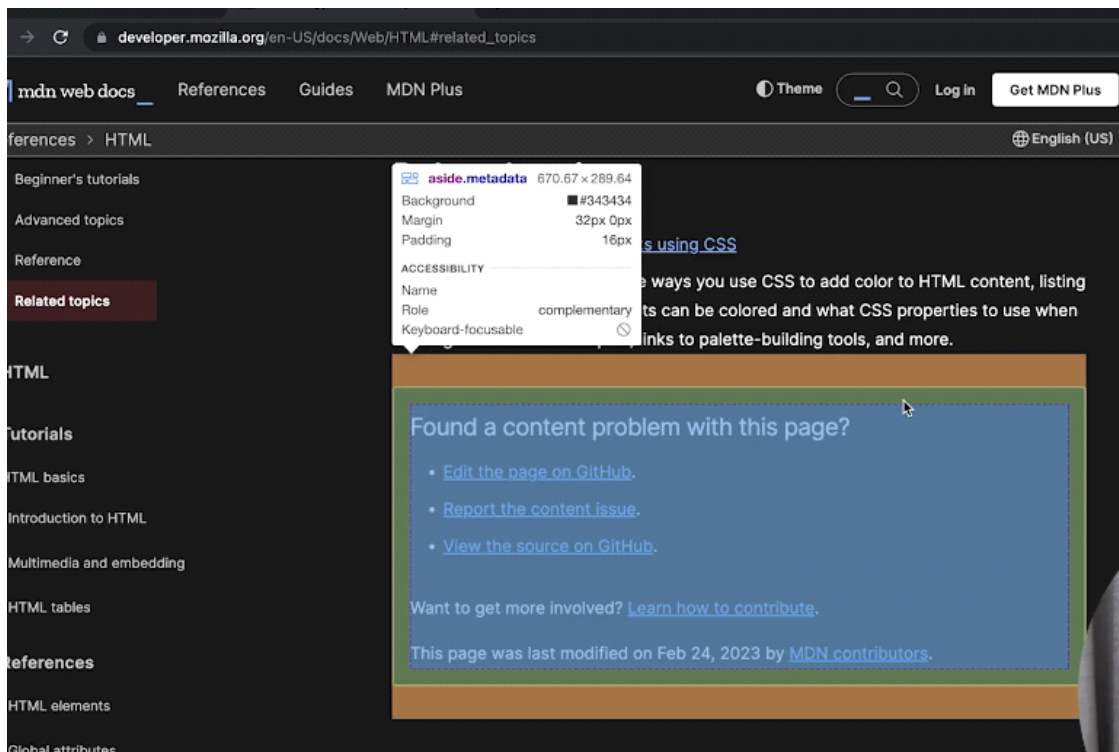
Class 9:

Practice Qs 6

- Add semantic markup to your Portfolio page.

We use: footer, header, section tag for skills, education.

```html
 9  <body>
10    <header>
11      <h1>Shradha Khapra</h1>
12      <p>I love to teach:-)</p>
13      <img src="myimage.jpeg" alt="my image" height="100px" width="100px" />
14      <hr />
15    </header>
16    <!-- Portfolio Sections -->
17    <section>
18    <h2>Education</h2>
19    <ul>
20      <li><b>Class X</b> (CBSE) : 10 CGPA</li>
21      <li><b>Class XII</b> (CBSE) : 94.4%</li>
22      <li><b>B.Tech</b> (NSIT, Delhi): 8.9 CGPA</li>
23    </ul>
24    <hr />
25    </section>
26    <h2>Skills</h2>
27    <ul>
28      <li>HTML, CSS, JavaScript, Bootstrap</li>
29      <li>ReactJS</li>
30      <li>NodeJS, MySQL, MongoDB</li>
31    </ul>
32    <hr />
33
```

```
27        <section>
28          <h2>Skills</h2>
29          <ul>
30            <li>HTML, CSS, JavaScript, Bootstrap</li>
31            <li>ReactJS</li>
32            <li>NodeJS, MySQL, MongoDB</li>
33          </ul>
34          <hr />
35        </section>
36
37        <section>
38        <h2>Hobbies</h2>
39        <ul>
40          <li>Reading Books</li>
41          <li>Debating</li>
42        </ul>
43        <hr />
44      </section>
```

```
45
46      <footer>
47        <h2>Contact</h2>
48        <ul>
49          <li><b>Email</b> - hello@apnacollege.in</li>
50          <li>
51            <a href="https://www.linkedin.com/in/shradha-khapra/"> LinkedIn </a>
52          </li>
53        </ul>
54      </footer>
55    </body>
56  </html>
```

In 10,15 line : header
In 17,25,27,35,37,44, line are section create
In 46, 54 line are create footer.

Note: see same as previous. But internally change(
CREATE 3 SECTION PART, 1 HEADER PART, 1 FOOTER
PART)..

Shradha Khapra

section 1110 × 120.91
Color ■ #000000
Font 16px Times
ACCESSIBILITY
Name
Role
Keyboard-focusable ⊘

Education

- Class X (CBSE) : 10 CGPA
- Class XII (CBSE) : 94.4%
- B.Tech (NSIT, Delhi): 8.9 CGPA

Skills

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- NodeJS, MySQL, MongoDB

Hobbies

- Reading Books
- Debating

Contact

- **Email** - hello@apnacollege.in

=====

Class 10: html entites

```
<body>
    <h1>a&lt;b</h1> I
</body>
```

o/p:

a<b

====

```
<h1>a&lt;b</h1>
<p>apna              college</p>
</body>
```

a<b

apna college

```
<body>
    <h1>a&lt;b</h1>
    <p>apna   college</p>
</body>
```

a<b

apna college

===

```
<body>
    <h1>a&lt;b</h1>
    <p>apna      | college</p>
</body>
```

a<b

apna   college

===

HTML Entities

- An HTML entity is a piece of text ("string") that begins with an ampersand (&) and ends with a semicolon (;).

- used to display reserved characters (which would otherwise be interpreted as HTML code), and invisible characters (like non-breaking spaces).

- can also use in place of characters that are difficult to type with a standard keyboard.

- browser interprets them & renders correct character

Begins with & and end with ;

Nbsp -> non breaking space.

space	
<	<
>	>

==

For printing : ♥

```
<body>
<h1> &hearts;</h1>
</body>
```

Normally without entites , we can't print heart sign

HTML Entities

Character	Entity	Note
&	&	Interpreted as the beginning of an entity or character reference.
<	<	Interpreted as the beginning of a tag
>	>	Interpreted as the ending of a tag
"	"	Interpreted as the beginning and end of an attribute's value.

==

```
</head>
<body>
    <p>a &lt; b</p>
    <p>a &gt; b</p>
    <p>a &amp; b</p>
    <p>a &quot;b&quot;</p>
</body>
```
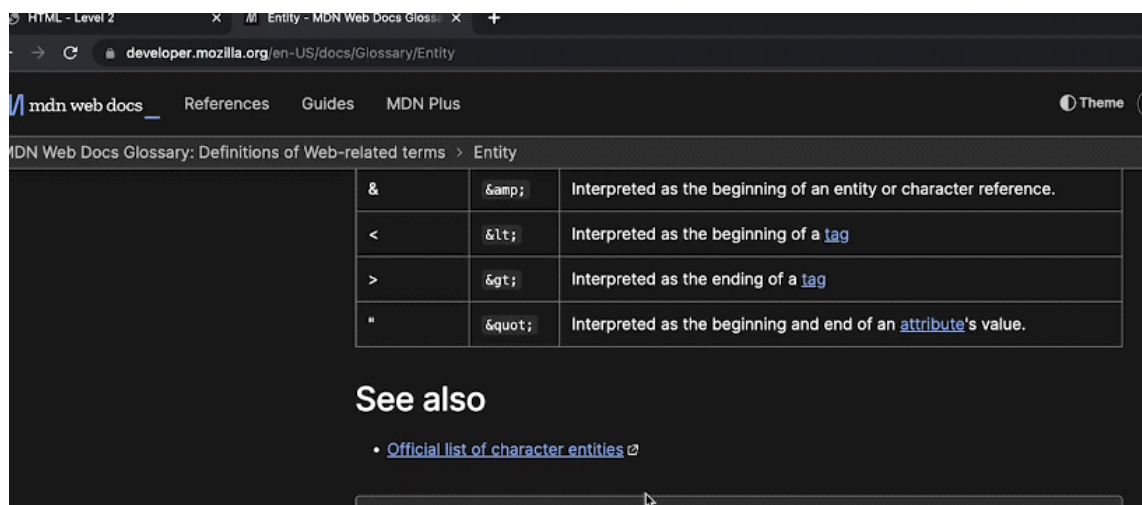
a < b

a > b

a & b

a "b"

===

VIP:

Here: Ctrl + F click for finding any sign .
==

Another way: here 2605 is unicode for print star. We have to write decimal number for print this star.
Unicode 2605 = decimal 9733.

<h1>this is a &9733;</h1>
Or

```
<body>
    <h1> &bigstar; </h1>
</body>
```

```
</head>
<body>
    <h1>this is a &#9733;</h1>
</body>
```

this is a ★

```
print heart in html entity number                    ✕    🎤  📷  🔍

🔍 All   🖼 Images   📖 Books   🛍 Shopping   ▶ Videos   ⋮ More        Tools

About 1,05,00,000 results (0.46 seconds)

HTML Entity Number

Source Code                              Result
_____

&#9829;                                  ♥

https://www.html.am › html-codes › character-codes › ht...   ⋮
HTML Heart Code - HTML.am
                                    ❓ About featured snippets  ·  ▣ Feedback
_____

https://www.rapidtables.com › web › html-code-heart   ⋮
HTML code for heart symbol (♥) - RapidTables.com
HTML code for heart symbol ; ♥, &hearts;, &#9829;, &#x2665;, heart symbol ; ❤, &#10084;,
```

=====

Practice Qs 5

Print the following on the screen using an <h1> heading element and entities

*search for suitable cloud & rain entities

The sky is cloudy ☁ & it will rain ⛱ today.

Search query: rain and umbrella html entity

About 28,40,000 results (0.54 seconds)

Unicode Character "☔" (U+2614)

Name:	Umbrella with Rain Drops
HTML Entity:	☔ ☔
UTF-8 Encoding:	0xE2 0x98 0x94
UTF-16 Encoding:	0x2614
UTF-32 Encoding:	0x00002614

8 more rows

https://www.compart.com › unicode

Unicode Character "☔" (U+2614) - Compart
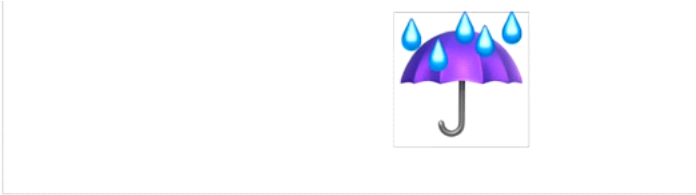
Name:	Umbrella with Rain Drops [1]
Unicode Version:	4.0 (April 2003) [2]
Block:	Miscellaneous Symbols, U+2600 - U+26FF [3]
Plane:	Basic Multilingual Plane, U+0000 - U+FFFF [3]
Script:	Code for undetermined script (Zyyy) [4]
Category:	Other Symbol (So) [1]
Bidirectional Class:	Other Neutral (ON) [1]
Combining Class:	Not Reordered (0) [1]

Category:	Other Symbol (So) [4]
Bidirectional Class:	Other Neutral (ON) [1]
Combining Class:	Not Reordered (0) [1]
Character is Mirrored:	No [1]
HTML Entity:	☔ ☔
UTF-8 Encoding:	0xE2 0x98 0x94
UTF-16 Encoding:	0x2614
UTF-32 Encoding:	0x00002614

```
<body>
    <h1>this is a &#9729; &#9748;</h1>
</body>
</html>
```

this is a ☁ ☔
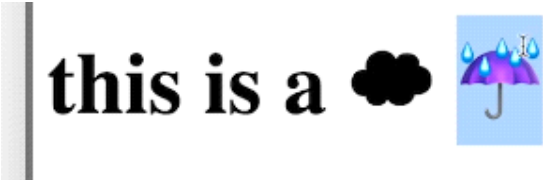
```
<body>
    <h1>The sky is cloudy &#9729; &amp; it will rain &#9748; today.</h1>
</body>
/html>
```

The sky is cloudy ☁ & it will rain ☔ today.

Emmet

visit emmet.io

Not

In vs code emmet install already.

In vs code:
! = the boilear plate of html. (! Is emmet Abbreviation).

====

From emmet documentation , we can see lot of emmet abbreviation.

Note: for child parent relation ,we can write > symbol.

What is parent child relation?
=> in nested tag, outer tag is parent tag,

Syntax

Child: >

nav>ul>li

```
<nav>
    <ul>
        <li></li>
    </ul>
</nav>
```

Sibling: +

div+p+bq

```
<div></div>
<p></p>
<blockquote></blockquote>
```

Multiplication: *

ul>li*5

```
<ul>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
</ul>
```

```
9    <body>
10       p>div+img
11    </body>        p>div+img
12  </html>          img:s
13                   img:sizes
```

```
</head>
<body>
    <p>
        <div></div>
        <img src="" alt="">
    </p>
</body>
```

For seach in emmet website , how to find emmet list:

Step 1:search emmet and go to emmet website.

Emmet
https://emmet.io

Emmet — the essential toolkit for web-developers

IN cheat sheet has 24 page pdf for emmet abbreviation
Example:

Grouping: ()

```
div>(header>ul>li*2>a)+footer>p
    <div>
        <header>
            <ul>
                <li><a href=""></a></li>
                <li><a href=""></a></li>
            </ul>
        </header>
        <footer>
            <p></p>
        </footer>
    </div>

(div>dl>(dt+dd)*3)+footer>p
    <div>
        <dl>
            <dt></dt>
            <dd></dd>
            <dt></dt>
            <dd></dd>
            <dt></dt>
            <dd></dd>
        </dl>
    </div>
    <footer>
        <p></p>
    </footer>
```

Download cheat sheet as printable PDF A5

Syntax

Child: >

```
nav>ul>li
    <nav>
        <ul>
            <li></li>
        </ul>
    </nav>
```

Sibling: +

```
div+p+bq
    <div></div>
    <p></p>
    <blockquote></blockquote>
```

Climb-up: ^

```
div+div>p>span+em^bq
    <div></div>
    <div>
        <p><span></span><em></em></p>
        <blockquote></blockquote>
```

Multiplication: *

```
ul>li*5
    <ul>
        <li></li>
        <li></li>
        <li></li>
        <li></li>
        <li></li>
    </ul>
```

Item numbering: $

```
ul>li.item$*5
    <ul>
        <li class="item1"></li>
        <li class="item2"></li>
        <li class="item3"></li>
        <li class="item4"></li>
        <li class="item5"></li>
    </ul>

h$[title=item$]{Header $}*3
```

ID and CLASS attributes

```
#header
    <div id="header"></div>

.title
    <div class="title"></div>

form#search.wide
    <form id="search" class="wide"></form>

p.class1.class2.class3
    <p class="class1 class2 class3"></p>
```

Custom attributes

```
p[title="Hello world"]
    <p title="Hello world"></p>

td[rowspan=2 colspan=3 title]
    <td rowspan="2" colspan="3" title=""></td>
```

Climb-up: ^

```
div+div>p>span+em^bq
    <div></div>
    <div>
        <p><span></span><em></em></p>
        <blockquote></blockquote>
    </div>

div+div>p>span+em^^bq
    <div></div>
    <div>
        <p><span></span><em></em></p>
    </div>
    <blockquote></blockquote>
```

Grouping: ()

```
ul>li.item$$$*5
    <ul>
        <li class="item001"></li>
        <li class="item002"></li>
        <li class="item003"></li>
        <li class="item004"></li>
        <li class="item005"></li>
    </ul>

ul>li.item$@-*5
    <ul>
        <li class="item5"></li>
        <li class="item4"></li>
        <li class="item3"></li>
        <li class="item2"></li>
        <li class="item1"></li>
    </ul>
```

Grouping: ()

```
div>(header>ul>li*2>a)+footer>p
    <div>
        <header>
            <ul
                <li><a href=""></a></li>
                <li><a href=""></a></li>
            </ul>
        </header>
        <footer>
            <p></p>
        </footer>
    </div>
```

```
ul>li.item$@3*5
    <ul>
        <li class="item3"></li>
        <li class="item4"></li>
        <li class="item5"></li>
        <li class="item6"></li>
        <li class="item7"></li>
    </ul>
```

```
(div>dl>(dt+dd)*3)+footer>p
    <div>
        <dl>
            <dt></dt>
            <dd></dd>
            <dt></dt>
            <dd></dd>
            <dt></dt>
            <dd></dd>
        </dl>
    </div>
    <footer>
        <p></p>
    </footer>
```

ID and CLASS attributes

```
#header
    <div id="header"></div>


.title
    <div class="title"></div>


form#search.wide
    <form id="search" class="wide"></form>


p.class1.class2.class3
    <p class="class1 class2 class3"></p>
```

```
Text: {}
a{Click me}
    <a href="">Click me</a>

p>{Click }+a{here}+{ to continue}
    <p>Click <a href="">here</a> to
    continue</p>

Implicit tag names
.class
    <div class="class"></div>

em>.class
    <em><span class="class"></span></em>

ul>.class
    <ul>
        <li class="class"></li>
    </ul>

table>.row>.col
    <table>
        <tr class="row">
            <td class="col"></td>
        </tr>
    </table>
```

Go to emmet website for better knowledge.

Understanding HTML 5

The term HTML5 is essentially a buzzword that refers to a set of modern web technologies. This includes the HTML Living Standard, along with JavaScript APIs to enhance storage, multimedia, and hardware access.

In HTML5 HAS new features that are some html related and some are not Part of html 5
New feature: 1.html living standard.
  2 . Javascript API which not related. It i=enhance storage,
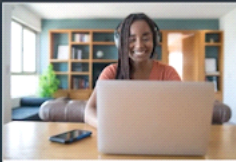
multimedia,Hardware access.

=====================

How HTML works?

HTML Standard

HTML Standard is a document that tells to the browser how HTMI should work.

good read for more details

A Beginner's Guide to HTML5
Learn what HTML5 is, how it differs from previous versions of HTML, and why you should use it on your site.

HTML (Level 2)
Practice Questions

Qs1. Self-learning
Search on the internet & learn to use the video tag in HTML. (Similar to the img tag)

Qs2. Is video tag a semantic tag?

Qs3. Print the following using HTML tags :

Today is the 9th of October and $2^4 = 16$ always

Qs4. Add a new section to your portfolio page for your achievements.Mention anything you have achieved, competitions won, participations etc. in this section. It could be related to coding, tech, art, music, sports, debating etc.

Use the following tags in some manner to achieve this : *<section>, <ul>, <b>, <hr>* etc.

Qs5. Print the symbols for copyright & trademark on your webpage.

HTML (Level 2)

Practice Solutions

Ans 1
Use this link for help :
https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video

Ans 2
Yes, the HTML video tag is a semantic tag.

Ans 3

```
<p>Today is the 9<sup>th</sup> of October and 2<sup>4</sup> =
16 always</p>
```

Ans 4
You have to complete this exercise on your own as the portfolio section will be different for each student.

Ans 5
We can do this using HTML entities.
Copyright entity name : **©**
Trademark entity name : **®**

Html code -> browser ->html standard -> generate web page.

For more information :
SEARCH: A Beginner's Guide to HTML5.

=========
                         FINISH   HTML5   LEVEL 2