Module 1 (Notes)

Module 1.1

What is Internet and how it works?

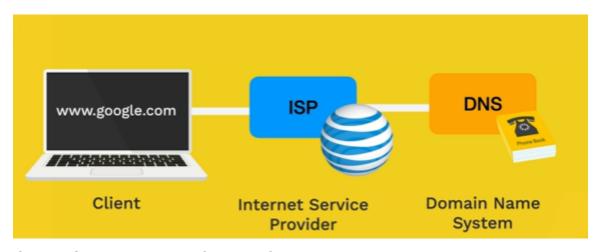
A vast network that connects a system to all over the world, through which systems can communicate with each other.

A computer which accesses the internet is a client.

A computer which helps client to access resources and data from the internet are called servers.

What happens when we search a website.

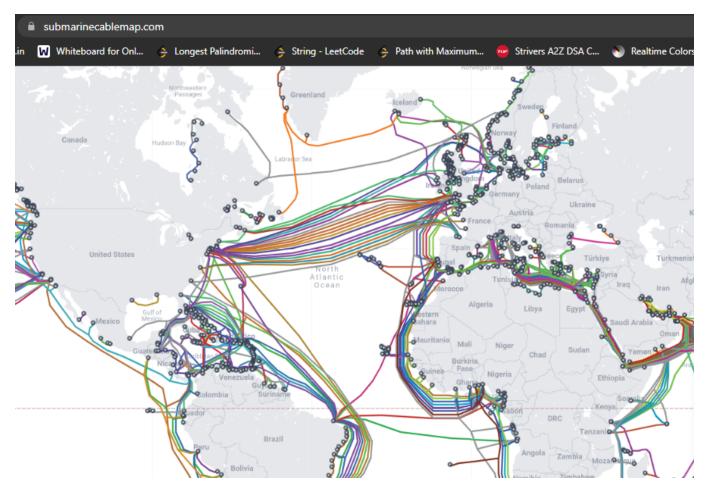
When we type a website name from the client computer, then the req is sent to our Internet service provides (ex. Jio, Airtel) and then ISP sends the req to DNS (Domain name system) which is just like a phone book, which keeps track of all the website and their IP addresses and then DNS finds the right IP of the website we req and sends back to ISP, then ISP searches for that IP over the internet and thats how we access a website.



Check Out <u>nslookup</u> to find IP of any website

How all countries are connected to internet?

via under sea cables (massive fiber optic cables)



source: submarinecablemap

Module 1.2

How a website is rendered?

When we type lets say www.google.com what really happens after the ISP, DNS. thing is that the website that we types will send us all data of its webpage, i.e. 3 types of files html, css, js

and then using a browser, all of the 3 files gets loaded 1 by one and at last we see the complete website.

Module 2 (Notes)

Module 2.1

HTML

Hyper Text Markup Language, where Hyper Text means a text which links to some other part or text, where as Markup is used to tell user/ reader that something is imp

or highlighted (which we do using html tags).

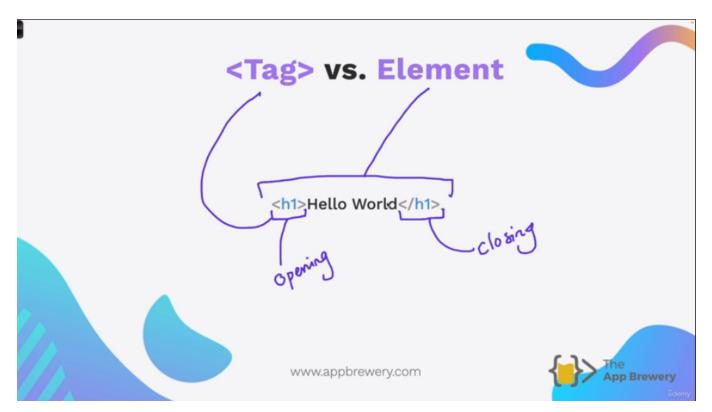
Some of most imp html tags :-



Module 2.2

Difference between HTML tags, elements, attributes, values ?

- Tag is basically what's inside the angle braces
- Element is the complete part starting from opening tag till closing tag. <> abc
- Attribute is the property of a tag eg. value="10" color="yellow"
- value is the value of that property



<> are called angle brackets

```
<tag attribute=value>Content</tag>
```

Heading Tag

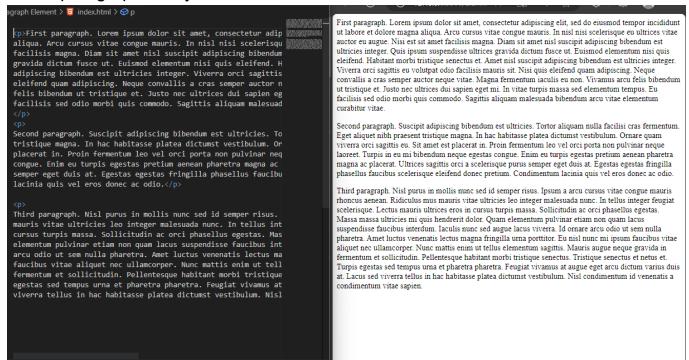
Heading's go from 1 to 6 where 1 is the max font size and 6 is the least font size.

```
<h1> Heading </h1> <!-- largest--> <h2> Heading </h2> <h3> Heading </h3>
```

Paragraph Tag

a paragraph is a distinct section of a piece of writing, usually dealing with similar theme.

a new paragraph always starts in a new line.



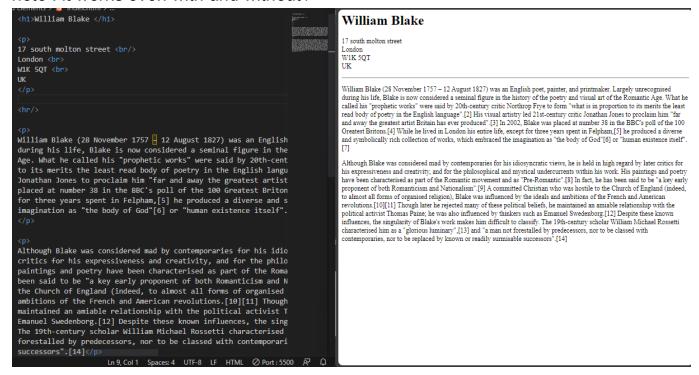
Module 2.3

Void Elements?

Void Elements are also called self ending elements ex.

-
 break tag ends a line
- <hr /> horizontal row tag creates a row horizontally
- insert images

note: it works even with and without /



Module 2.4

Creating a collection of best movies

```
<h1>Collection of Great Cinema - by Yashasvi</h1>
<hr><hr><h2>Movies :- </h2>

Intersteller
Inception
Insumbad
I
```

Collection of Great Cinema - by Yashasvi

Movies :-

- Intersteller
- Inception
- Tumbaad
- Tenet3 idiots
- Gangs of Wasepur

Module 2.3

What is a List tag?

there are 2 types of lists

- ordered list
- unordered list

Ordered list items is in order (ranking starts from 1 by default)
Unordered list items are represented by bullets (default is a circular filled bullet)

How to change the default bullets styles of list items?

there are 2 ways to do this for ordered lists :-

- 1. by setting value attribute to an int.
- 2. by setting start attribute to an int.

and for unordered list :-

• 1. **set** list-start-type = any style (in **styling**)

- 3. Water
- 4. Milk
- Water
- Milk

Nested List

```
Α
                                              • B
                                                    1. B1
3B2
                                                    2. B2
                                                          ■ B2a
     B2a

    B2aa

          B2aa
          B2ab
                                                                ■ B2ab

    B2b

     B2b

    B2c

                                                    3. B3
                                                          1. B31
                                                          2. B32

    C
```

Module 2.4

What is an Anchor Tag and its attributes?

This tag defines a hyper link which is used to link pages with each other its attributes are href="www.google.com" (used to link website or other webpages)
and target="_blank" which is used to open a new tab ones the link is clicked

attributes :-

```
href=""
target="_blank"
download (makes the link downloadable, usefull for pic and pdfs)
```



note: When this above link is clicked the .txt file mentioned is downloaded

My top 5 Favourite Websites

- 1. Product Hunt
- 2. Smash the Walls
- 3. Wordle
- 4. Hacker Typer
- 5. Stellarium

Que - How to jump to a specific section on the same page using anchor tags?

Ans - all we need to do is instead of inserting link, just put the where this id is the id of the specific or maybe the <div> tag that we are targeting example :-

```
<a href="#part3"> Jump to Part3</a>

    id="part3"> Part-3 <br>
    Nulla quidem eaque dolores praesentium
    facilis vero at? Voluptatibus fugiat veniam
    architecto, optio ratione aliquam autem
    impedit officiis libero dolore fugit
    blanditiis dicta. Porro assumenda quibusdam
    velit natus, fugit ut labore! Iure quam a
    cupiditata similiana bestap at ullam itague
```

Jump to Part3

Part-3

Nulla quidem eaque dolores pra vero at? Voluptatibus fugiat ven ratione aliquam autem impedit of fugit blanditiis dicta. Porro assu velit natus, fugit ut labore! Iure

Module 2.5

What is an Image Element?

image element is used to insert images into webpage. It is a void Element (self ending).

Here is a a Lorem Epsum type website for images :- <u>picsum.photos</u>

Just write picsum.photos/ size or seq in pixels

eg.



source = https://picsum.photos/300

Que - How to embed google maps into webpage?

Ans:-

step1 : search for that location in google maps

step 2 : click on share

step 3 : go to embed link and copy the code, then paste this into html

