#### HIML

Or Whod is Server ?

- Server is a place where all the resources are present. > It accepts all upcoming suggest.

- Compare to normal computer, it has higher configuration Ex: Google, facebook, etc.

(s) what is Protocol?

- Protocol is set of rules defined for communication.
- Browsers understand only http/https.

O- What is HITP?

-> HITTP stands for Hyper Fext Transfer Protocol.

Is It is a protocol used to access the data on the cown. The http protocol can be used to transfer the doto in the form of plain text, hyper text, audio, video and so on. -) HITTP is similar to FTP, as it also transfer the file from one host to another host, but HTIP is simpler than FTP, on HTTP uses only one connection.

Q + what is HTTPS ?

-> +ITIPS stands for Huber text Transfer Protocol secure

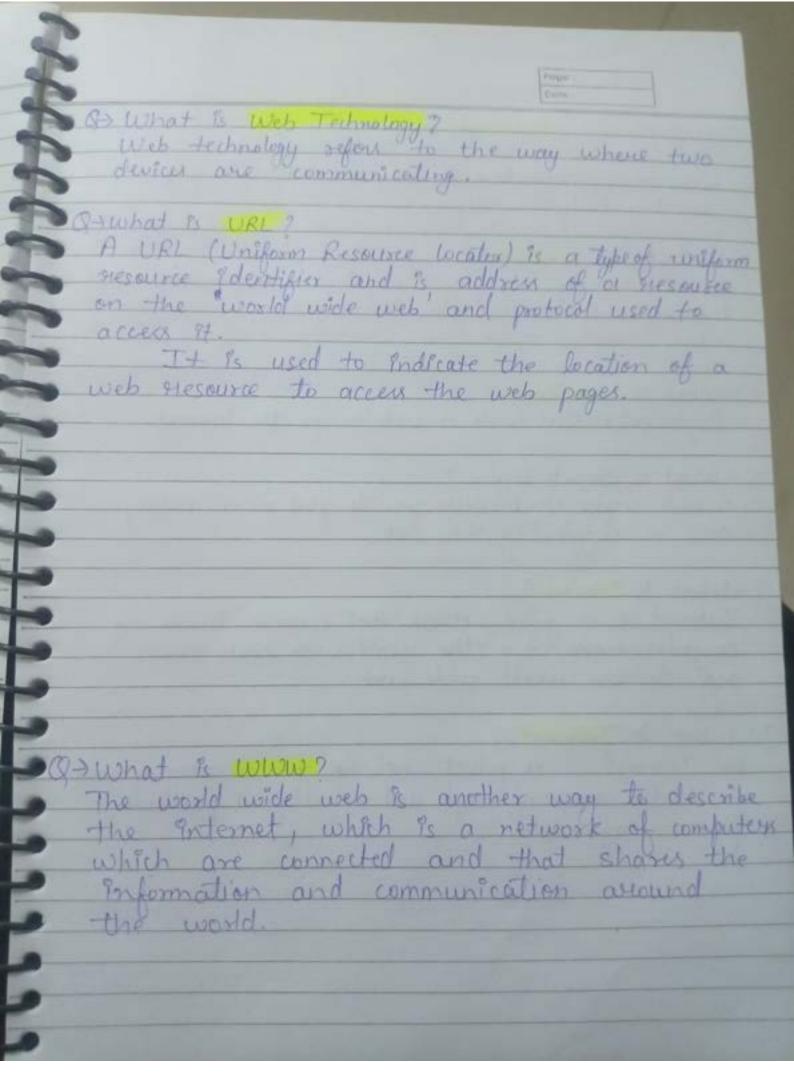
7 It is a seune extension or version of HITP.

This protocol is mainly used for providing extra security to the data sent between website and the web browser.

-> It is mainly used on the internet and used for secure communication.

> Those websites which need legin credentials should use HTTPS protocol for sending the data.

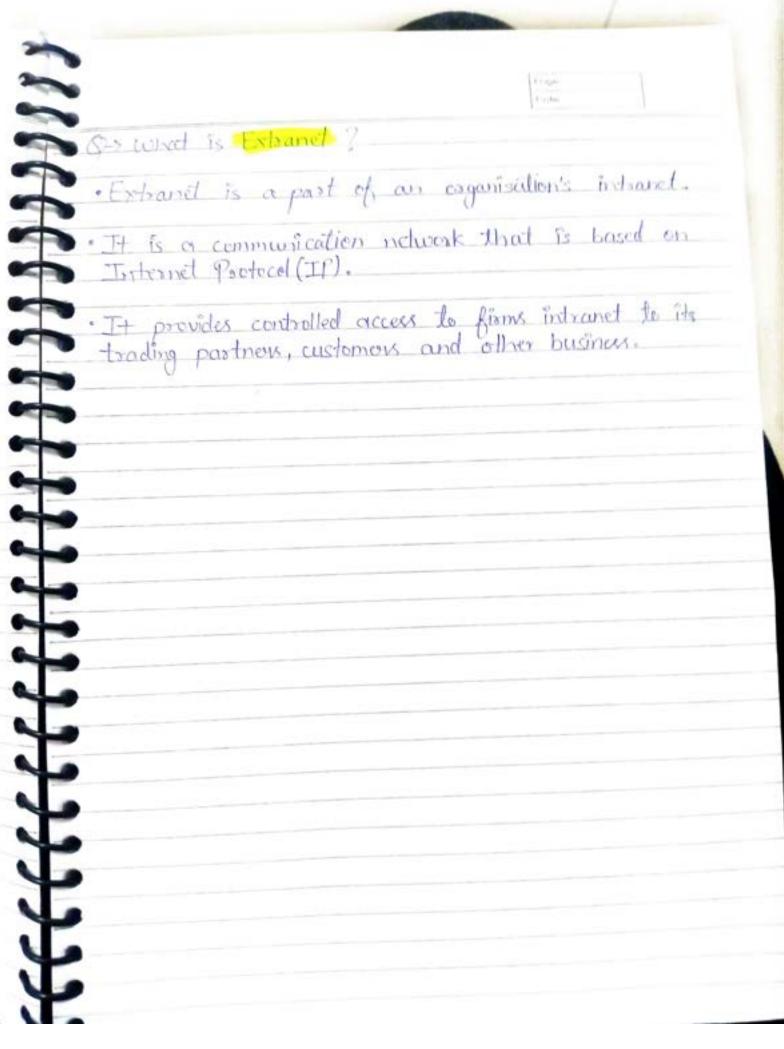
thorain. Ordife. Q> What is Web Browsen ? - Web Browsen is an application used to communicate with websites. -> Web Browsey understands only web languages -> Different browses contain different compilers: Ex & Chrome, Mozilla firefox, etc. S→ What is Request ? -> Request is a data exchange from browser (clients) to the websites (servey) -> Requests can be send in different wags :-1) Typing URL 2) Clicking on Hyperlinks 3) Submitting Response. -> Request can share user data. Q-> what & Response ? -) Response is a data exchange form website (server) to browser (client). -) Response can be divided into two types · State Response: A static Response refers to a webpage that always displays the content to every visitor. · Dynamic Response: A dynamic response means the content of the page can change based on usey-input, location, or other-factors, essentially generating different content for each usen depending on the situation.



2000 So what are webpages? A document which can be display in a web browser or structure by any markup language is mething but the webpager. Q-) what is website ? A collection of webpages which are required grouped together and usually connected together in various Q-) What is Web-Server 9 of computer that hosts a website on the internet. O- What is Search Engine ? A web service that helps you to find other webpages, such as Google, Bing, Yahoo, etc... Q-> What is Internet ? Internet is a global network that connects billions of computer access dcross the world with each other. and to the world wide web.

An Intranet is a private network of computers designed for certain group of people and owned by a particular firm or organisation.

Q-) what is Intranet?



Working Principle of Web . HIML is used to create the structure of webpage. attractive by giving some designs. · JavaScript is used to make websites dynamic and Is is also used to add functionality in webpages. · React IS is the library of javascript to make 'Single page application'. · Angular is also a Single Page Application. · Library is defined as the collection of predefined coder · Framework is a collection of libraries. => Static Website: A website in which webpages are delivered exactly as they are stored, with no real time content changes Dynamic Website: It generates content in real time, typically using databases and scripting languages to provide interactively and personalized experienced.

,	Static Website	Dynamic Websit
Content	Fixed content, manually updated.	Content changes and
Technology	Built with HTML, CSS; No Database Required	Uses Serven Side language (AIP) & Dat
Speed	Faster; No processing	Slower; Requires 5
fleribility	less flexible, manual updates.	Highly flexible, engli
Cost/ Maintenance	Cheaper, simple to	Costlier, more maintenance
Use Case	Small sites, fewer	larger, interactive
Multiple Pag Single Page	Application one the an	sultiple webpages.

Q-> Diffe	ence blu SPAs and	MPAS
9.7	SPA.	MPAs
Performance	Faster Loading Time	Slower Leating Time
Debugging	More Difficult	Well supported by debugging tools.
Development	fast	Slower, more complex
Maintenance,	forst and easy	Slower
Security ,	Simplified	More Challenging
SEO	Limsted	Easier and more
Cost	More Expensive	less expensive
calability	Not Scalable	Scalable.
	listory of	HIML
111	new-Lee, a physicist in Switzerland in	at the CERN gresearch

1991 - Tim Boines Lee invented HTML 1.0. 1993 - FITML 1.0 was released 1995 - HTML 20 was published 1997 - HTML 3.0 was invented 1999 - HTML 4.0 comes out. It was very successful. 2014 - HTML 5.0 was released and used wooldwide. \* Structure of HTML: <! DOCTYPE Hitml> <html lang="en"> < head > <meta charset="UTF-8"> <meta name="viewport" content="width=device-width,</p> initial-scale = 1.0"> <title> Document </title> </head> < body> </body> </html)

## \* Introduction of HIML

- · HTML stands for Hyper Text Markup Larguage.
- · HIML is the standard markup language for creating web pages.
- · HTML describes the structure of webpoger.
- · HTML elements tell the browsen how to display the content.
- · HTML uses . html extension.
- · In HTML, a Boilerplate' refers to a standard template or set of code that provides a basic structure for a web page.
- The World Wide Web Consortium (W3() is a non-profit organization that develops technical guidelines and standards for the web.
- · Declaration Statement declares the file belong to which version of HTML
- · DOCTYPE HTML → It will specify the browser, this document file belongs to version HTMLS.
- DTD (Document Type Definition) -> It is the declaration statement in HIMLI -HIMLY

- + Tags: Phylling which is enclosed between angular brackits (->) is known as Tag.
- along clso known as "Self (bosing or Void tage", do not enclose content and end with a slash, such as <ing/>, <br/>
  slash, such as <ing/, <br/>
  sl
- + Flemente: A tag with some content in it.
- Hotml> </html> element is the root element in HIML.
- html document.
- Nody> </body> The structure shown on the webpage is written in body tag.
- meta) meta tag will specify the metadata.
  - Metadada means the data about the data.
- · charset -> It is used to specify the character set.
  - Two types of Charset (a) UTF-8 (for 8-bit)

    (b) UTF-16 (for 16-bit)

    UTF Unicode Transformation Format

Task: Find the font size of heading tags in 'rem'

<h1></h1>	Bold	2.125 mm	34 px
< h2>	Bold	1.875 rem	30 px
< h 3> h3	Bold	-1.875 sem	24 px
(h4)	Bold	1.25 rem	20 px
<h5></h5>	Bold	1.25 rcm	18 px
<h6></h6>	Bold	1 rem	16 px

\* Shortcuts

- · h\$ + 6 (h1 to h6) → Print all the headings. h\$ + n (hh to hn)
- o! Shift + |alt + | 1 | → copy the code or line where cursor is present.
- Ctrl + alt + 1/11 → Multi-line airsor / Select multiple lines in element.
- · tr + n (table) → The selected row will created n times.
- · tr \* n. class name -> to give some class name to all
- to \*n. classname \$ -> It gives classname1, classname2,

fragu. Galar

1. Global Attribute: Global attributes are attributes that can be used with any HTML element.

It is describe globally inside HTML code.

The core attribute of Global Attributes are:

- \* Id: · id attribute is used to identify the html
  - · id should be unique for every html element.
- \* class: . we can target multiple elements using 'class'.
  - · we can use same class in multiple elements.
- \* Style: style attribute is used to provide enline CSS.
- \* title: The title attribute is used to specify extra info" about the element.
  - · When the mouse/cursor moves over the element then it shows the information.

2. Element Specific Attribute:

attributes which is described to find specific element inside the ham code.

\*Formatting Tags:

To change the format of him elements

the tags used are known on formatting Tags

formatting is a process that allows us to

format text to increase its visual appeal.

# Types of Formatting Togs:

- · <b> Defines bold text.
- · (strong) Defines important text
- · <em> Defines emphasized text ("italic).
- · (i) Definer a part of text inside the html element is to displayed in italic.
- · (sub) Definer subscripted text
- · (sup) Defines superscripted text
- · (ins) Defines inserted text (underline).
- · <u>> It is used to give underline the text inside the
- · (del) Defines deleted text
- · (strike) It gives strike to text inside the html but it is depricated.

used to give strike to the text. whatever format you write it will appear in · (pre) \* Sensuric lags on HTML Semantic tag will describe to the purpose to the browser as well as developer. Types of Semantic Tags: · Karticles · Kheaders · (aside) · <footer) · < details) · (mark) · (Stummaky) · <time> · < Agure > · <nav> · < figurablion) · (section) · (main) 1. (section) - For large Container Represents a standalone section of content that has Its own theme or purpose. It often contains related contest grouped together 2 Carticle > - for large Container Representa independent, self contained constent. It can be distributed independently, like a blog, post, news article or forum post 3. (main) - For Medium Containes Represents the main content of the document, encluding footer, header and navigational items.

It is meant for sections of the website dedicated to navigation like menus, home, or a list of internal

1. type = "1", "a", "A", "i",

2. start = accept only number.

3. sieversed - can reverse sequence.

Attributes of Joly:

<11></11> - contains list items. 2. Unerclared list (ul) These lists are used for items that do not need to be in any specific order. The list items Attribute of (w): type = "circle"; "disc"; "square" · We cannot use Start and Reversed attribute in 3. Nested list: list inside a list 4. Descripted / Description list <dl> These lists are used to contain terms and their corresponding descriptions. Two tage used in Kdl) 1. Kdt > Definition Term 2. Kdd > Description data Types of Elements in HTML: 1. Block Level Flement · Black level Element will take complete viewport width. · We can modify the size of block level elements.

· All the Block level elements will strat from new line. e.g.: (div), (section), (main), sorticle), (header), (footer), (nov) Kaside>, , , , , <dt>, <dt>, <dd>.etc

2. Inline Elements · Inline Element will take only content width. · We can't modify the size of Inline Element · Inline Elements will appear in the same line. eg: (span), (a), (b), (sup), (time). etc. 3. Inthe Block Element · Inline Block Element will take the content width. - We can modify the size of Inline Block Flement. . If we use multiple Inline-Block Element, they will appear in same line. e.g : All media tags. -\* Image Tag Kings The Kings tag is used to embed an image in an HITML page. -The (ing) tay has two required attributes: 4 · alt - specifies the path to the image.

· alt - Specifies an alternate text for the image, if the image for some sugson cannot be displayed. ~ ~ ~ will show the src or source path current directory ~ 4 ".../" - will exit the current directory - Anchos Tag Kas

The <a> defines a hyperlink, which is used to link from one page to another.

<a> element has an important attribute (href=""").

(href="") - hyper-reference, which indicates the link's destination.

<a href=".1"> </a> (Inline Level Element)

\* CDN (Content Delivery Network)

- · A network which is used to deliver the content.
- · The group of multiple servery is known as CDN.

\* Tonget Attribute

The target attribute specifies where to open the linked document.

Attribute Values:

blank: Opens linked document in a new window or tab.

-self: Opens linked document in same frame as it was clicked

-parent: Open linked document in parent frame

\_top: Open the linked document in the full body of the window. framename: Opens the linked document in the named itrans. \* Principles of HIML: DRY - Do Not Repeat Yourself SOC - Separation of Concerns. \* Table tag in HTML: HTML table allow web developers to arrange data into your and columns Tag Description (table) Defines a table > Defines a header cell in table. (tr) Defines a row in table (td) Defines a cell in table (thead) Groups the headest content (thody) Groups the body content

Sandie and wider have two attribute loop Il is a bodean attribute Fifther document. - Media Tag is a group of tags that helps with creating multimedia experiences on a webpage. -· Media is used to specify that target URL · Media tags have attributer like: HILL sic, control, loop, autoplay, iframe Those are two types of path: 1. Relative Path: Relative path takes the sufference from current disectory. ('.1', '...") 2. Absolute Path: Absolute path will always take reference from noot directory i.e. C-drive. FORM in HTML: The user input is most often sent to a server for processing. Syntax: < form action=" " method=" "> </ form) The default behaviour of form tag is refreshing.

used to get the data and data (post) to the server.
data (post) to the server.
and is "get".
- dialog get post
ribute is used to store the particular file.
):
· password
· radio
· Heset
· Search
· submit
· tel
· time
· url
· week
The state of the s
· text

## Validation Attainetes in firm:

- 1. Required: It specifies that an input field must be filled out before submitting the form.
- 2. Disabled: It specifies that an input field should be disabled
- 3. Pattern: Specifies a regular expression that the input field value is checked against, when the form is submitted
- 4. Size: Specifics the visible width, in characters of an input field.
- 5. Step: Specifies the legal number intervals for an input field.
- 6. Maxlength: Specifies maximum number of characters allowed in an input field.
- 7. Min length: Specifies minimum number of characters allowed in an input field.
- 8. Min and Max: Specifics the maximum and minimum values for an input field.
- 10. Readonly: Specifies that an enped field is read-only.
- 1. Selected: Specifics a pre-selected option
- 2 Placeholder: Specific a short-hint that describe expected-value.

E CSS	Fope Tale
S-) What is CSS!?  · Cascading Style Sheet  · CSS describes how HTML  displayed on screen.  · CSS is style sheet language  HTML document.	we use to style an
External stylesheets are store  History of CSS:  To 1994, Hakan Winn Lie, he introduce the idea of CSS	
CSS was developed by World (W3C), with significant contribution of Bert Bos.  CSS 1 (First Version) in 19 CSS 2 (Second Version) in 19 CSS 3 (Third Version) in 2	sbutions from "Hakon Wium 996
1. Inline CSS  2. Internal or Embedded CSS  3. External CSS.	
CSS Syntax: Selector, property	· value ? : blue; }

I Ways to Add CSS 1. Inline Cas: achieve with the help of "style" attribute inside opening tag of clement on which cos has to be applied. e.g: style = "colox: red" > Hello World! 2. Internal or Embedded CSS: applying CSS styling with the help of (style) </style) tag, defines <style> P { color; red; </style> 3. External CSS: achieved by linking an external file contain styling of webpage with the link tag having relation stylesheet · the filename extension should be ".css". · External CSS is used to apply CSS on multiple pages. Priority Order of CSS.
inline CSS has higher priority

	Foge
	Date
* Selectors:	Selectors are used to target an HTML element.
Types of Selec	tor:-
1. Simple Selec	tor
2 Combinator	selector
3. Attribute Sele	clor
5. Pseudo Elements	Selector
S. I SCHOOL ETERNINGS	, Signature.
	t out
1. Simple Sele	ctox - id selector
(select elements b	universal selector
name, id, class)	· element selector
	· group selector.
	<u> </u>
1) Id Selector	:- · To target an element uniquely we Id Selector.
	· unique Id attribute within the p
	is selected.
	· core attribute selector.
	· Selected by symbol '#' followed id name.
Syntax:	ta name.
-H	tid name f
	styling properties
	name cannot start with a number.

E	Fright Culter
1111	(v) Grouping Selector: The group selector selects all the HIML elements with the same style definitions. Separate each selector with a commo.
	e.g. > h1, h2,p { c.s Property;
11111	2. Combinator Sciector  • A combinator defines the relationship  • b/w two selectors.  • A CSS selector can be simple or complex  consisting of more than one selector  connected using combinators.
	Descendant Combinator (space)  * Child " (>)  * Adjacent Sibling " (+)  * General " " (~)
-	(i) Descendant Selector (space)
11111	The descendant selector selects all the elements that are descendants of a specified element.  These elements can be any level deep within the specified element.  (parent, parent's parent, parent's parent's parent)
-	Syntax: selector 1 selector 2 { Buresty Declaration

### (ii) Child Selector (>)

. The child selector selects elements that are direct

children of a specified element.

Child selector is stricter than descendant selector, as it selects only the direct children.

· Syntax : selector1 > selector2 & properties;

## (iii) Adjacent Sibling Selector (+)

· Adjacent sibling selector selects an element that is directly after another specific element.
· Sibling elements must have the same parent.
· This selects only the next sibling.

· Syntax: former\_element + target\_element ¿ properties;

# (iv) General Sibling Selector (~)

The General Sibling Selector selects elements that follows a specified element and shores the same parent.

· This can be useful for selecting groups of elements with the same parent.

· Syntax: former\_element ~ target\_element { property;

# 3. Attribute Selector:

- · The attribute selector is used to select elements with a specified attribute and value.
- · Syntax : Selector Lattribute
- Types of Attribute Schetter
- 10 [attr]
- ii) [attr = value]
- (iii) [attra= value]
- (iv) [attr = value]
- (V) [attr = value]
- (vi) [attr \$ = value]
- (Vi) [att x = "value"]

### 4. Psuedo-classes:

- · A pseudo-classes is used to define a special state of an element.
- · For example, it can be used to:
  - \* Style an element when a user moves the mouse over it.
  - \* Style visited and unvisited link differently.

  - \* Style on element when it gets focus \* Style valid/invalid/stequired/optional form elements.
- · Syntax: selector: pseudo-claux ( property : value;

\* Dynamic pseudo-clauses · link · visited · active · focus · hover UI element pseudo-classes · chabled · disabled · checked \* Structural pseudo-classes · first - doild · last - dild · N+h- child · First - of - type · Last - of - type 5. Pseudo- elements · A CSS pseudor elements is used to style specified parts of an elements. · For example, it can be used for, · Style the first letter or line, of an element.
· Insert content before or after an element.
· Style the marker of a list · Style the viewbox behind a dialog box.

· Syrtax: selector: pseudo-element {
 property: value;

- · :: first-line
- · : first letto
- · : before
- · :: after
- · :: markey
- · :: selection

## => what is important?

The limportant rule in CSS is used to add more importance to a property/value than normal.

like we use l'important for a property, then it will override All previous styling rules, for that specific property on that element.

Priority Order of Simple Selector

ID > CLASS > ELEMENT > UNIVERSAL

With the help of l'important rule, us can overside the priority order.

## \* SText Property:

- · In web design, CSS text properties can be used to
- plain text into amazing looking or simply it

## -Text Formatting

· Text Color: The color property is used to set the color of the text.

The color are specified by -

- 1) predefined color names (red, blue, black etc.)
- ii) RGB (Red, Green, Blue) zgb (val1, val2, val3)
- (RGB Alpha) rgb (val, val, val, x)
- iv) hal (hue, saturation, lightness) -, hal (h, s, l)

  hue -> 0-360; 0=red, 120=breen, 240-blue 0-1001.

  saturation (0-100%) -> 0% = shade of gray

  100% = full color

  lightness (0-100%) -> 0% = black

100% = white

50% = neither black nor white

v) hsla (h, s, l, alpha) = hsl (val, val, val, x √(0.0-1.0) → 0.0 (fully transperency)
1.0. (not transpared at all)

vi) Hexadecimal Value: # ffffff, #000000

Text-Align: This property is used to set the horizontal alignment of a text.

A text can be left or right centred, centered, justified.

justify: each line is stretched so that every line has equal width, and the left and snight margins are straight.

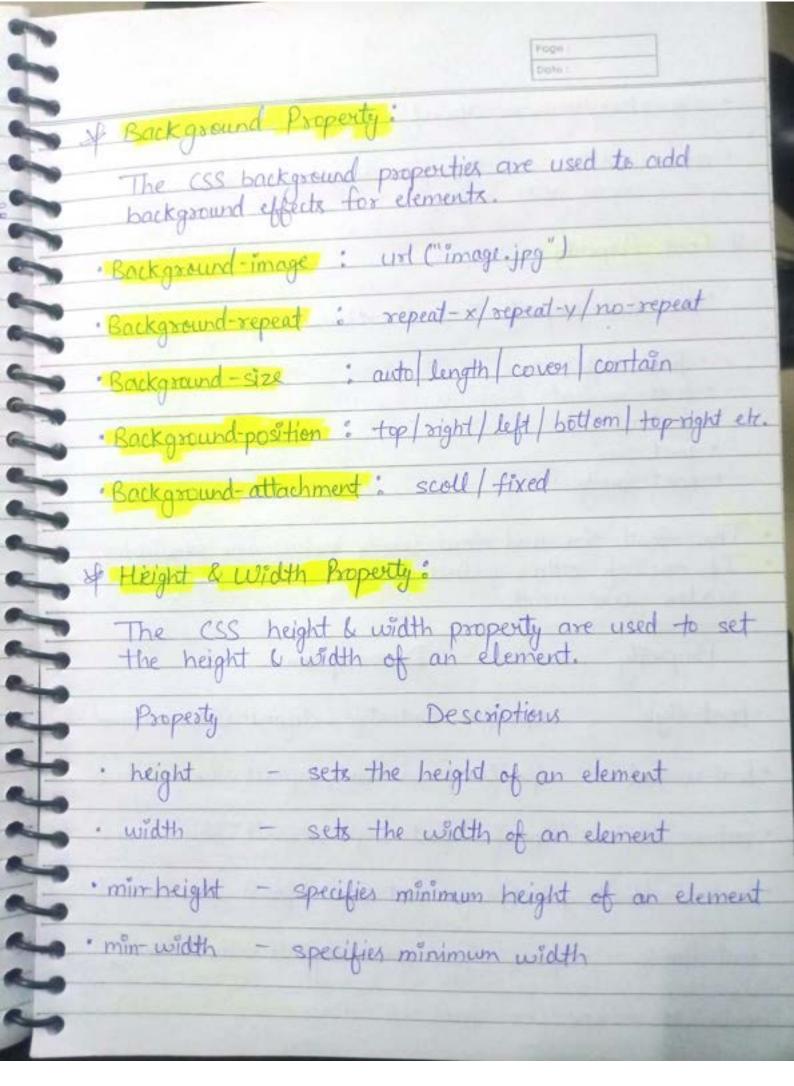
·Text-Transform: This property is used to specify uppercase and lowercase letters

Three values: uppercase buer case capitalize

· Text - Shadow: This property adds shadow to text.

It can be use in 4 ways -> (a) X-axis (b) Y-axis (c) spreadness

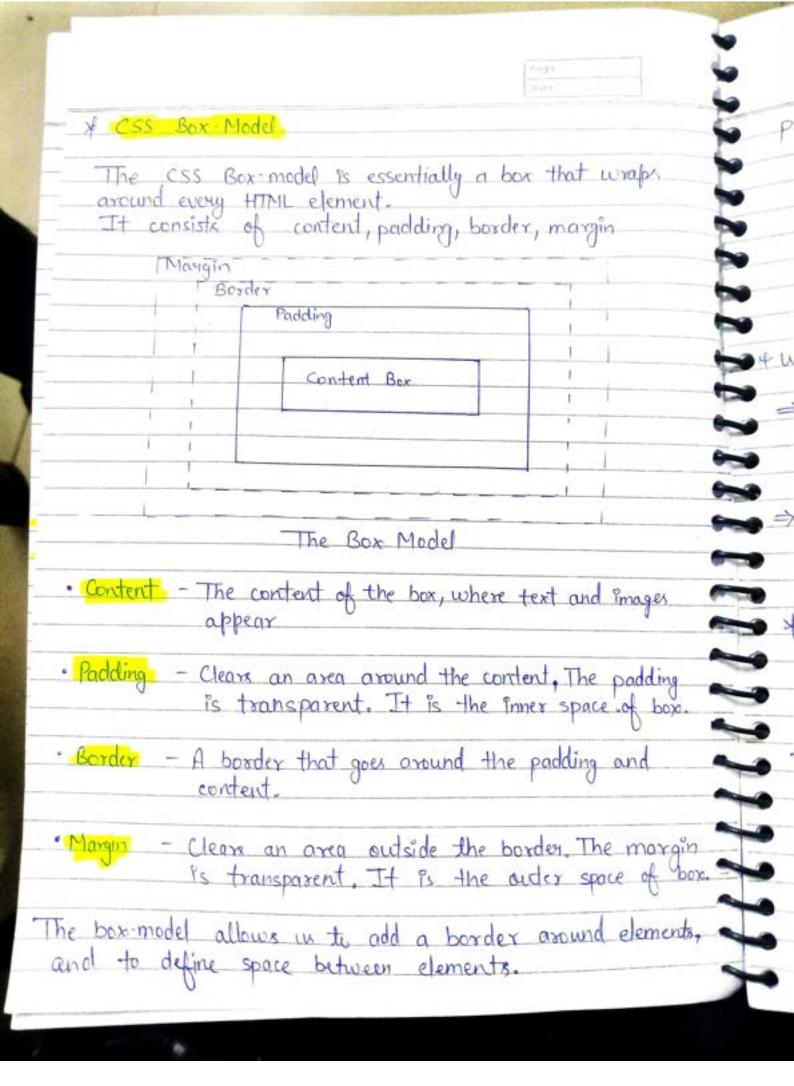
9 Page   Page
· Text - Decoration: This property is used to add a decoration line to text.
text-decoration property is a shorthand property for
<ul> <li>text-decoration-line (sequired)</li> <li>text-decoration-color (optional)</li> <li>text-decoration-style (optional)</li> <li>text-decoration-thickness (optinal)</li> </ul>
· Letter-spacing: used to provide space between letter.
· word-spacing: used to provide space between words.
· Text-Indent: This property specifies the indentation of the first line in a text-block.
text-indent: length initial inherit
Note: "-ve" values are allowed, first line will be indented to left if value is '-ve'.
* Text-Effect
Text-Effect  Text-cverylow: clip/ellipsis
· word-wrap : break-word
· word-break : Keepall / breakall
· writing-mode : horizontal-tb/vertical-xl

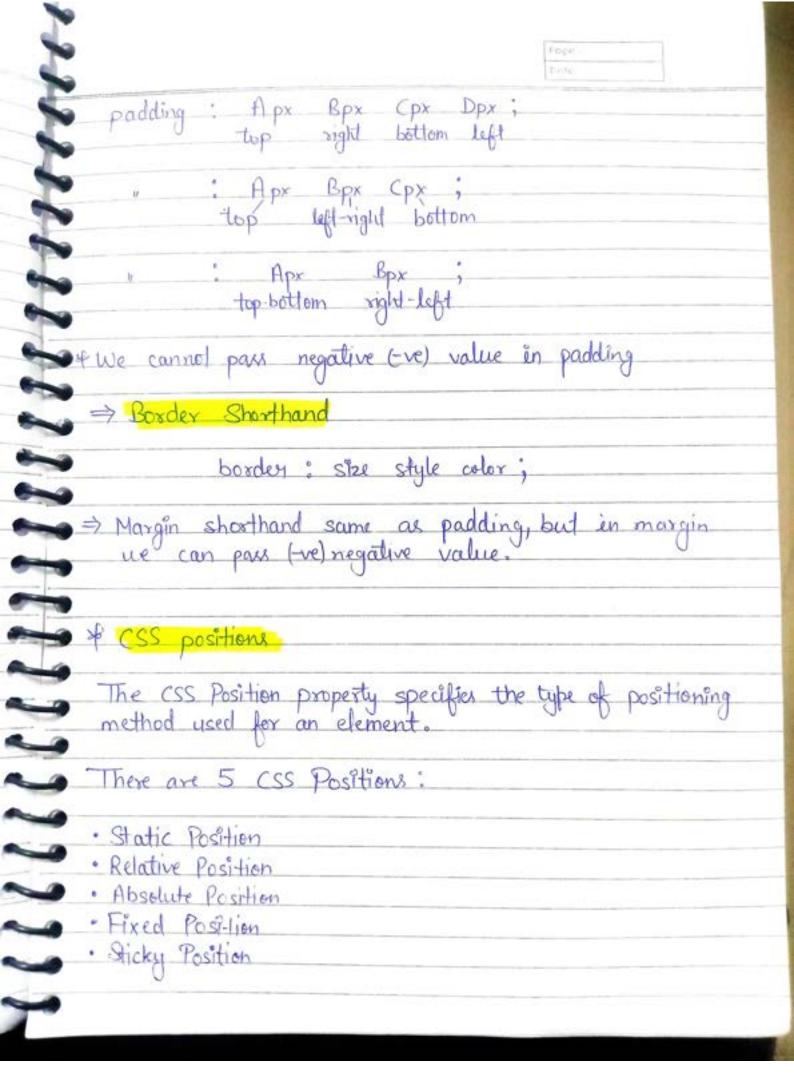


· max-height specifies maximum height · max-width peufier maximum width & Fort - Proposity The food proposity is a shorthand proporty for: · fort-style · fort - variant · fort-weight · ford -size · font-family The font-size and font-family values are required. If one of other values is missing, their default Property Description · font-style Specifies font-style, default value = normal · font-variant Specifies fort-variant, default value = normal · fort-weight Specifier font-weight, default value = normal · fort - size/line-height - Specifies font-size, default value = normal - Specifier font-family, default value = depend now to \* line-height - specifice space blu lines.

y Background-color: The background-color property sets the background color of an element. The background color property is specifies as a single (color) value Syntax: {background-color: "value";} Background: The Background property in CSS is very commonly used and contains many variants. The background property consists of following properties: · background- repeat · background-color · background-image · background-position · background - origin · background-clip · background-size · background-attachment CSS Background is a shorthand property of all above. · Gradients · CSS gradients let you display smooth transitions between two or more specified colors.

CSS defines three types of Gradient: i) linear Gradient (goes down, up, left, right, diagonally)
ii) Radial Gradient (defined by their center) in) Contral Corodient (rotated asount a center point)





· Sticky Position

#### 1. Static Position

- · The default and initial position of an HTML element. is a Static Position
- · Static positioned element are not affected by top, bottom, right, left properties:

### 2. Relative Position

A position which is taking reference from its normal position and changing its positions by top, bottom etc.

#### 3. Absolute Position

- · Postion Absolute will take reference from its neavest parent, which is having position: relative.
- If the nearest parent Psn't position: relative, then it will check for a level-up parent to be positioned relative, and if not, then cultimately it will take the reference from the body.

## 4. fixed Position:

. It will fixed the element to the viewport.

				Fogs:	
5. Stick	Position				
·It is	scrollated point,	sle upto it will	certain p U get pos	oint . Once, it . ition fixed.	rec
CSS F	Texbox				
Flexbox	is a lay	out met	hod used	for arranging '	iten
It is	or co	ectional	layout	· · · · · · · · · · · · · · · · · · ·	
Flexbox	1-dire	of:	U		
· a f	lex contai	iner - th	ne parent	element	
· fle	x Ptems	- the i	tems/ elemen	t inside parent	elei
	Containe	ч.	T to		
	item	item	1tem		
			-		
display	flex;	; you;	4	Hex-disection: c	olur
display	flex;	; you;		Hex-direction: c	olur
display	flexi flex-clir	· yow;			olur
display	flex;	'yow',		Plex-direction: c	olur
	flexi flex-clir	; yow;			olur
	flex; flex-clir	; you;			elur

· Display: flex / Inline flex The flex container becomes flexible by setting the display property to flex. \* CSS properties une use for flex-container are: · flex direction: this property specifies the display-direction of flex stems in the container values: now/column/ now-reverse / column reverse · flex-wrap: this property specifies whether the flex-itens should wrap or not, if there is not emough room for them on one flex line. values: nowrap/wrap/wrap revealse · flex-flow: shorthand property for flex-direction and flex-wrap. · justify-content: this property is used to align items on the main-axis values: center / test / si flex-start / flex-end / space-evenly · align-items: this property is used to align flex-items on the cross-axis. values: center / Hex-start / flex-end stretch / baseline / normal

· align-self: specific the alignment for the selected.

align-self override the default alignment set by the align-container's align-items property.

## of Grid Layout

arid layout Module offer a grid-based layout system, with rows and columns
It is a 2-directional layout.

Grid Container: A grid layout consist of parent element, (the grid container), with one or more child elements.

Grid-items: All direct children of grid container automatically become grid-items.

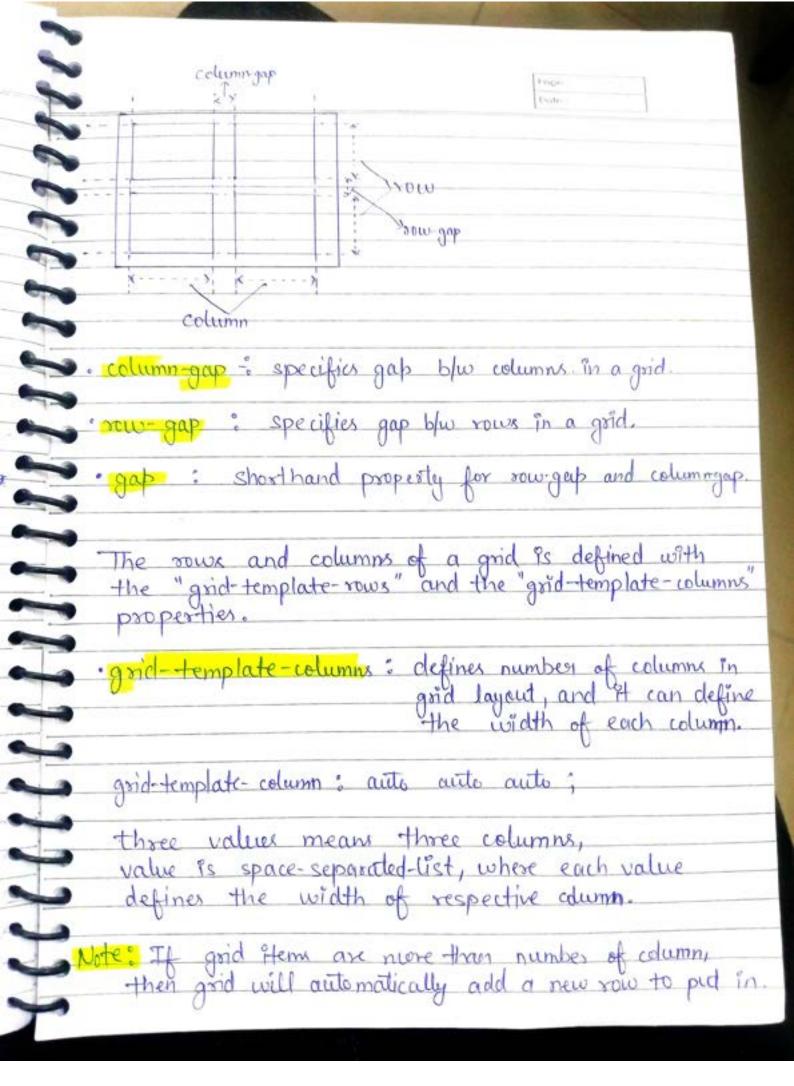
· Display: grid inline-grid

An HIML element becomes a grid container when its display property is set to grid or "inline-grid".

· Grid Column: The vertical lines of grid-items

· Grid-row: The horizontal lines of grid Hems.

Grid-gap: The spaces between each column/roov is



· grid-template-rows: defines the height of feach row. value is space-separated, where each value defines height of respective columns rows. · justify-content: used to align the whole grid inside the container. 700 valuer: start | end | center | space-around space-between | space-cuenty · align-content: used to vertically align the whole grid inside the container. values: same as justify-content. · place-content: Shorthand property for justify-content 100 of Grid items: A grid container contains grid-items egrid-column: this property defines on which column(s) to place an item. ~ H is a shorthand property for "grid-column-start" and ~ -~ 4 grid-column: 1/5; grid-column: 1/span4;

\* grid-row: defines on which row to place an item · short hand property for "grid-row start" and \* grid-row: 1/4; grid-row: 1/ span 2; "g-c-st,"g-r-end, and "g-c-end" properties. # grid-area: 1/2/3/5; make an "Hem" start on row-line 1 and column-line 2 and end on row-line 3 and column-line 5. make an item " start on now-line 1 and column-line 2 and span 2 nows and 3 columns. ⇒ grid area property can also be used to assign names to . item 1 { grid-area : A ; grid-container {
grid-template-areas: A A A A A'; Naming grid items can be referred to by the "grid-template-areas"

property of the grid container.

Each row is defined by apostrophes ('').

columns defined inside apostrophes, separated by space.

## 4 @ Keyforame Rule:

- \*\*CSS Animations:

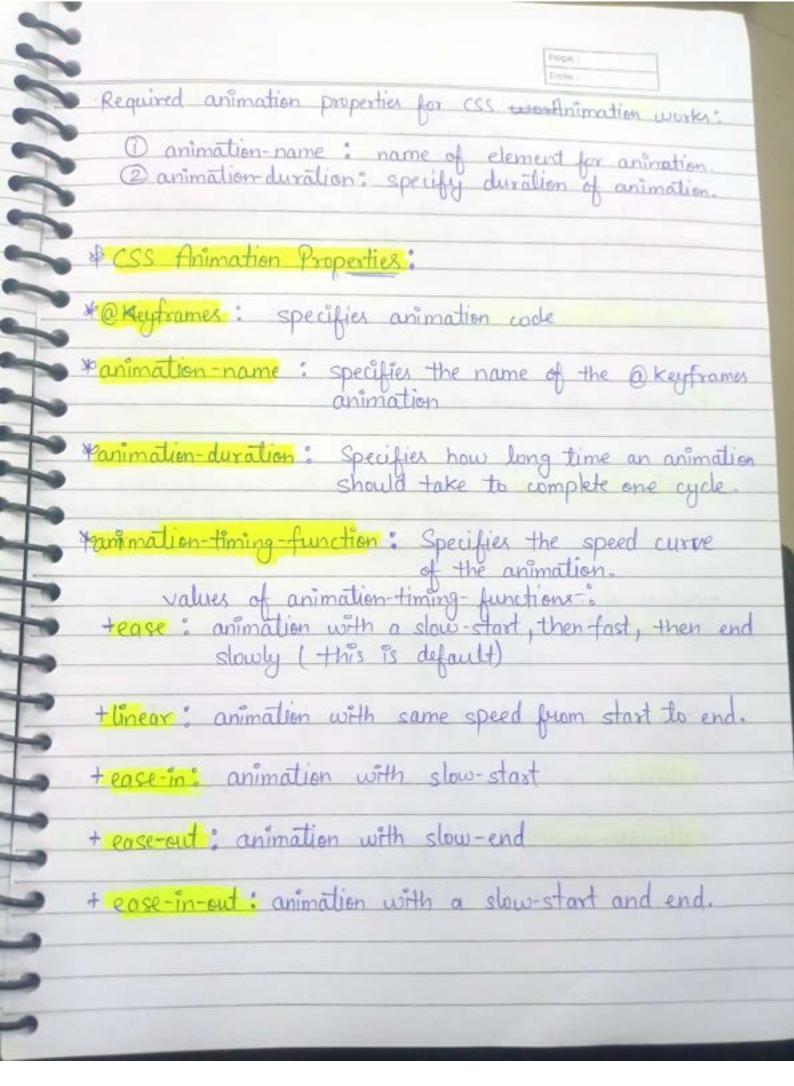
   An animation lik an element gradually change from one style to another.

   To use CSS animation, we must first specify some key frames for the animation.

   Key frames hold what styles the element will have at certain times.

   When we specify CSS styles inside the akey frames rule, the animation will gradually change from the current style to the new style at certain times.

   To get an animation to work, we must bind the animation to the element.
- div & width: 100px; height: 100 px; background color: red; animation-name: example; animation-duration: 45;
  - @ key brames example { from { background-color; red: } to { background-color; green; }



\*animation-delay: specifies a delay for the start

-negative values also allowed. If negative value used, the animation will start as if it had already been playing for N seconds.

& animation-iteration-court: specifies the number of times an animation should run.

-infinite value make the animation continue for ever.

fanimation-direction: specifies whether an animation should be played forwards, backwards or in alternate cycles.

-values of animation-direction:
-normal: animation played as normal (forwards) this is default

· Heverse: animation played in surverse direction (backword)

· alternate : animation played forward firsts, then backwards.

· alternate-reverse: played backward first, then forward.

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## + CSS Box Shadow:

- (SS Box Shadow:

  Box-shadow property is used to apply one or more shadows to an element.

  In simplest use, we can only specify a horizontal and a vertical shadow.

  The default color of the shadow is the current text-color.

  div {

  box-shadow is 10 px 10px;

  }

  box-shadow has some parameter:

  (i) x-axis -> shadow along horizontal

  (ii) y-axis -> shadow along vertical

  (iii) blux -> defines blur radius

  (iv) spread -> defines spread redius (the value inc. shadow size)

  (v) color -> color of shadow of element

  (vi) inset -> changes shadow from outer shadow (outset)

  to an inner shadow (inset).

  An element can have multiple shadow.

An element can have multiple shadow.

# \$ CSS 2D Transforms

· CBS transforms allow us to move, rotate, scale and skew

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## 4 CSS 2D Transform functions:

- ·translate(): mover an element from its current position (according to x-axis and y-axis)
- · sotate (): rotates an element clockwise or counterclockwise (according to given degree) · -ve degree rotate counter-clockwise.
- "Scale (): increases or decreases the size of an element (according to parameters width and height)
- \* transform = scale (2,3); increase with 2 times, and height 3 times.
  - · Scale X(): increase or decrease width of element.
    · scale Y(): increase or decrease height of element.
  - · skew(): skews or twist an element along X and Y-avis

trasform: skew (20 deg, 30 deg);

· skew X(): skew element along X-axis · skew Y(): skew element along Y-axis

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## & CSS 3D Transform functions:

- · sotate X(): rotates an element around its X-avis at a given degree.
- · sotate Y(): rotate an element aboaround its Y-axis
- · rotate 21): rotate an element around its z-axis at a given degree.

## \* (SS Transitions:

- · CSS Transitions allows you to change property values smoothly, over a given duration.
  - · transitions property
  - · transition-duration
  - · transition-timing-function
  - · transition-delay
  - · transition: shorthand property for all of above.