Introduction to HIML

Ollinasio :-

HTML stands for Hyper Text Markup Language.

It describe the structure of any meb page using mankup. It is tag-based language and are defined.

The extension brackets.

· The extension used to sauce these html fills as interior

Sample of HTML Document ClDocTypE html> /*tell the bequeres, that the field
 Thtml> Attack being aleplayed is HTML5 page*/
 html dayment */
 Chead> // Deally all the html data and start of am Theads // provide Pryormation about the document. The document #/. Thead> < Body > 1# It contain everything with will be displayed on webpage of. 1/Bodys 1/ html>

The above Is called the source code of a website.

HTML Element:

Elemente are the things that makes up the web page. Tags Just define the beginning and end of the element. Everything that a webpage includes is an Himzelement. Example: - > Hello Ishita! <h,> Hello Ishita! </hr>>.

Empty Elements: - Some time tags have no content like Lbr> element. Thuse are called empty element.

Se used to Introduce a single line break between
 the contents.

For Example: <h3> I am learning
html: I am learning
html To H TML Tags and Elements:meaning to the plain text of the document, P.e, they give meaning to the plain text of html.

They are son surrounded by Land > (angle brackets). an underscore ? of tags with an opening and closing can have any number of tags within themselves. The tags are not case senstive. means some as . They usually comes in pairs. comments:-The comment tag <!--> 9s used to Present comments 9n the You can use comments to explain code, which can beep You when you have have a lot of code to Implement. Note: - If you are using visual studio code then there is shortcut key to add line comment: [Ctre+k+ctre+c] thoragraph: Paragraphs are bocks of text separated from each other by some space. They are defined using the ond
the power of the separate appears of t p elements ends, the next elements appear on the next line. Example:-<body> This is our first document This is our second document This Is our mind document Comput: This is our First document. This is our second document. This is our second document. This is our second document.

These are tags in Home to mark some content as heading. In fact there are six different level of headings his has, hy, his home content as headings his has, his has hamong while hi as largest and he is smallest,

Hello!</hi> output Hello! <h2> Helid </h2> Hello! < h3> Hello!</ms> Hello Thy> Hello! </hy> Hello! <h6>Hello! </h6> Hello', Line Breaks There are multiple ways to provide line breaks or move the content to the next line. Example Offplay on browser Hello Ishita! Hello Ishita! How are How are you? Yeu? Welcome to the welcome to the course of HTML! course of HTML! HTML Horizontal Rules The this tag defines a thematic break in an HTML Pages and is often displayed as a nortzontal line. The <hr>> element is used to seprate content in an HTML page example:-Display > Hello! Welcome to the HTML course:) Hello! Welcome to the Lh9> HTML course Let's Start Let's start Break taq. Lbr> is used to Botroduce a striger the break between the content. Display Example: <P>I am learning HTM L! I am learning HTML! het's start

Let's stouct.

Images In HTML oulse Pew With HTML, you can also desplay images in a document.

In HTML, smages are defined with the Angs tag, of abesit contain the closing tag, which means the at at about six a self closing tag which means the closing tag.

Six attribute is The sec tag into The sac tag contain both relative and absolute path, as well as protermet mage in ks. Syntax: - - - Proges/logo.png ">
Beauses: Image. alt attenbute The att attribute or alternate text tills the ready what truy are missing on a page of the becourse, can't load images. The becourse will then display the alternate text instead of the mage Syntax : < Pmg src="-" alt = "magenot avallable"> Browers 13 Image not available Height and Width :-The Height and width of any mage can be set alreetly by using the height = "value" and wilder = "value" attributes.

By defail the value provided Ba un pirole.

Anchor tag en html:The tas tag defines a hyporlink, which de weld to link
on one page to another. We see that when we click
on any link, it opens a new page may be on the
same page or another.

Tink

They give us the about to go to a without sale webpage entering its URL. These are called external winks 9.e. they neep 9n connecting to external week page.

They will be 19n king the content within the seme page. Eg. 19nk to the Ink to any specified content on any page.

An unersted which is underlined, and blue on active link is underlined, and purple.

An active link is underlined, and red.

Heref attendente.

It in dieutes the links destination. The hug attribute us used to address the document to link to.

Example; <h2> Let's sleet!

> Solve gour problems at

 problem

Brows er:

Let's Start!

solve your problems at Problem solution,

any resources on the web: an It can point to HTML page, an Image, a sound tile, a mouter, etc. These all are knows as external Link

Note: the need to sumember that here also, we can provide the relative URL of a file as a value to here attribute 'Eg: heref="/home/my/pc/Dourments/testintme."
Rolation Kelatin and Absolute dinking: Relative einge de wed to specify word 19nk Pre. ore of the morde root folder.
Ore of the mes pages
Relative. Relative link morks relative to the page. So, when a user circk a relative eink, the browser looks for the location There are the file relative to the curs ent page. There are four squation: -(1) File is present in the same folder Eg: Raherof = "relative file.ntme">dly me L/a> (2) File des present un the sub folder File de present somewhere in the parent folder

(a hary =" -/subjoider .../relative file ntml"> CIRCK Me< (a>

(a hary =" -/subjoider .../relative file intml"> CIRCK Me< (a>

(1) Elic of the parent folder .../relative file intml"> CIRCK Me< (a> 1) Ffie is present in another subfolder of the parent folder La horef="... / subfolder / relative Ffie not me"> click mex /a>. taget attribute white this attribute, we can define where the Priked document will be opened. The tagget attribute has the following values: - Self: boad the URL unto the curvent tab Ptsey.
- blank: load the URL unto a new tab or browser -parent: Load the URL Puto the parent becouring context. Extrere le no parent this behaves the same as self. · _top: word the URL into the top level browsing context. If there is not parent the behavior he vote: - By default, the page will be displayed in the cursent beowser window.

Attributes un HTML:-HTML attributes can provide additional proprenation about the HTML elements on your page and control Example behaviour. their behaviour. Example: Ttag-name attribute namez «value-value"> content Electosed < Itag names. Some poports to remember: Attendantes always come un name/value pairs like this: attribute_name & value".

Attribute_name & value". · Attributes are always added to the start tag of an HTML element. Attribute value should be always be enclosed in 96 tes.

St Double style goute ("") are the most common, but single etyle goites ('') are also allowed. In some nave cituations, like unun the attribute value illeste contain quotes, it is necessary to use sengle quotes: name z'JohnstshotGun' Nelson' ond Styling un HTML Styling on HTML element can be done by using the styll attribute and providing some specific value its it styling could be done on color, jont, text, size, etc. |Syntax: < tag name style = "property: Value; "> lext color: If It is carused to change the color the text. < h2 style= "color; sed"> I am Good! [/hi> Broweer I am Good

Text spze

It is used to set the text seze for an HTML element.

TP style="font-spze:30 px;"> welcome to reasoning world 2/P>

TP style="font-spze:20 px;"> Hello </P>

Browser

Welcome to Learning World Hello

may like Text Algnment, Fonts, Background color, Multiple styles, etc.

Text Formatting en HTML HTML provides us with the ability for formatting text gust like we do it in Ms word or any text editing software.

appearance of the text on your meb pages

This can gazz up to the look of the page. However, too much variety in the text formatting can also look displeasing. HTML also defines special elements for defining text with a special meaning.

Tag	Description
<	Definis bold text.
	Definis emphasized text.
<1°>	Défines Estable text
<small></small>	Define smaller text
	Define Proportant text
	Define subscripted text
	Define superscripted text
<u>></u>	Defénse underlined tent.

zens	Define insected text by underlying the text.
	
ts>	Defines text that its no longer correct, accuration relevant by starking through it.
<mark></mark>	Define marked highlighted text.
<pre> <pre> </pre></pre>	Define preformatted text, which is presented exactly as written in HTML. Define text appears as typed by a typewrites. Define text appears as typed by a typewrites.
	Define text appears as typed by a typeweiter.
Scodes	Définer piece of competer code.
<9.5	Define snort quoted text.
<ate></ate>	Defene resogence in a cited work.
<abbr>></abbr>	Definer an apprendation or acrongm.

Colors 9n HTML

The color property is used to the set the foreground color of an element's text context and its desoration.

Background color

The background-color property sets the background color of an element. It has the same value as that of the background color colour property.

Example-Style = "background color: Yellow;" > Hello!

lext color

The color property sets the colour of an element. It has the same value as that of the color property.

Example:Tp style= "colorised;" > Helio!

Border

It as used to make borders around an element when have some specific width, type and colour. We will cover borders latter in the cs module.

Example: Hello:

The colour proporty can be specified on 6 different ways.

All modern brown supporte 140 different colours named for CSS. Unlike HTML, CSS will completely Ignore centiment key words. The color keywords all represent plain, solid colors, without

transparency.

RGB stands for Red, breen and Blue. It is a color model where a combination of Red, Green and Blue forms a color. The Postensity of each color has values ranging from 0 to 255.

This provides a very large number of colours detaset.

Black color -> rgb (0,0,0)

white color → rg b (255,255,255). (3) By hexcode:-

The colons can be represented by 6 digits hexaderimal code The code are made using 3 colons (Red, Green and Blea). The floor two digits are sed, the next 2 are green emd last 2 are blue syntax is #RRGGBB.

Each nexaderimal value between 00-ff is fimilar to

0-2551 # FFFFF white #000000 - Black

(4) Wing Hel:-

· the is a degree on the colour when from 0 to 360. O ûs red, 120 ûs green, 240 ûs blue.

· Saturation, represent the amount of saturation in the colour. It as a percentage valles 0 % means a shade of grey, and 100% is the full color.

· Lightness, represent the amount of light in the color. It is also a percentage, 0% is black, 50% to neight to neither 11ght nor dark, 100% is white.

SUSING RGBA Perovided with alone, Alpha) is an extension of RGB, perovided with alpha transparency. This alpha value determines the opacity of the RGB defined color. The alpha parameter he a number between 0.0 to 1.0.

(6) Using hela

HSLA (Hue, Saturation, Light, Alpha) is also an extension of HSL, provided with alpha transparency, the alpha Value and sold with alpha transparency. Value and property is the some as that is RGBA.

Lists in HTML:-

Information, so they are clearly associated with each other and easy to read. Lists due good from a structural point of view as they help oreate a well-structured, more accessible, easy maintain document. It supposed on deepsible, easy maintain document. It supposed or dued, unordered and definite on

* Unordered 19sts

It is used to group a set of related items in no particular order unordered lists are used when the numberling of items is not required by default, they are followed by bullets.

They are defined suring rul>tag and the rlis tag.

It provides an interesting feature to change the style of the list item maker.

There are 4 types of Styles on unordered lists:

Note:

o type = "crede"

■ type = "square". type z "none".

The above stype used "type" attoubute which is not need to change the style.

Tul> Li> fust < LL> Second </Ll> ていうけんれんくんじつ 1/ul> <160dy> </htmls. Ordered lists

Brousen Lists first ton · Second . third

It is used to group a set of related Items in a specific order. Ordered lests are used when the numbering of items is required. By default, the tems are followed by numerical numbering.

They are defined using the Kolstag, and the Klistag is used for each list item.

They are different ways to number the ordered list using the type altrubuters

1: type = "1".

A. type = "A".

a. type="a".

type = "1".

type="i".

Note: -

Start attribute is the attribute which is used to change the starting numbering.

Example:-

Lhi7 Lests/ly>

Lol>
Lis Burger
Lus Przza x/lis <u > Oreoshake:>

RIDLS

Browser

1. Burger

2. Przza

3. Oreoshake:)

Description 19sts

A definition list is not a list of items. This is a list of terms and explanations of the terms.

A definition list starts with the Edd's tag. Each definition list starts with the Edd's tag. Each definition list term starts with Lat Fag. Each definition list definition starts with the Lad > + ag.

to ordered and unordered thats and hence are significantly significantly less used. But whenever, a structure like a description is required, the description is required, the

Example:

<h2> Description List <de>> <at>coffee</at> <dd>-black not drunk 1/dd> Tat > Milk < lat>

<dd>-white cold drink < ldd> </de>.

Output:

A Description List coffee - black not down k Milk -white cold drink