Static Web Page Development

Basic of HTML

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Fundamentals of HTML

- ☐ HTML is stand for Hyper Text Markup Language.
- ☐ HTML is a language which is used to create web pages.
- ☐ HTML is a set of Tags.
- ☐ It is set of tags and their attributes that defines different parts of web document and inform web browser how to display them.

HTML Tags

- □ Tags are enclosed within angle brackets (<>). <html>
- □ No space is allowed between symbol and tags. <b ody> <bo dy> not valid
- □ All tags must start with opening tag and closing tag <> </>
- □ Tags are not case sensitive. <html> <HTML>

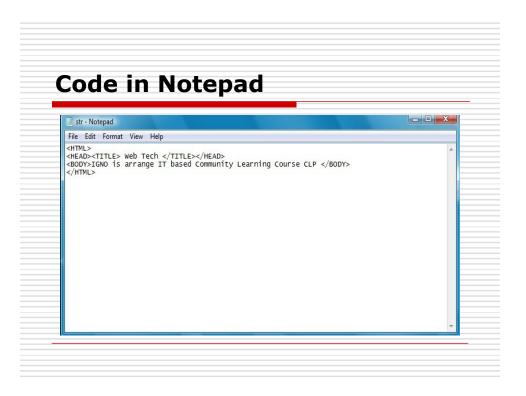
Structure of HTML

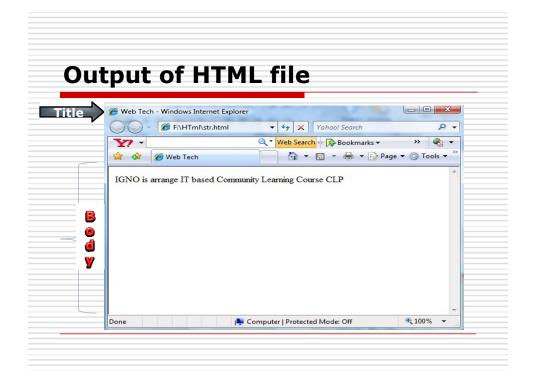
Tools Required for HTML

- ☐ Two basic tools that are required to develop and view the web page created using HTML.
- □ Tools:
- ☐ HTML Editor (text editor)
- Web Browser

First HTML document

- □ Open your text editor like notepad, word pad.
- □ Write your HTML code.
- ☐ Save your HTML document—with the .htm or .html extension.
- ☐ Open saved file using any web browser.





Skeleton of HTML Document

- ☐ HTML document is start with <html> and end with </html>.
- Document can be divided into two parts. Head and body.
- <head> contain title, scripts and styles.
- <body> contain different tags and contain of the page.

<HTML> Tag

Туре	Container tag
Use	All of the document part is contained between this tag
Attributes	It does not have any Attributes

Container tag means it has closing tag <HTML> </HTML>

<HEAD> Tag

Туре	Coı	ntainer t	ag		
Use		ad conta the docu		and sc	ript
Attributes		does ributes	not	have	any

<head> <title> and <script> elements are found in </head>

<Title> Tag

Туре	Container tag
Use	Head contain title and script of the document.
Attributes	It does not have any Attributes

<title> </title>

Heading Tag

Туре	Container tag
Use	It is used for specifying the heading in document. <h1> to <h6></h6></h1>

Attributes

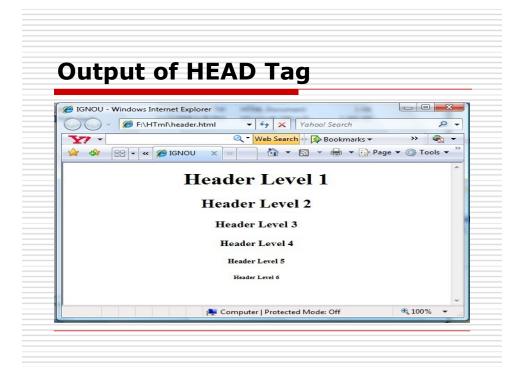
align	Its Used to specify the alignment of
	headline. Values are LEFT, RIGHT,
	CENTER and JUSTIFY.

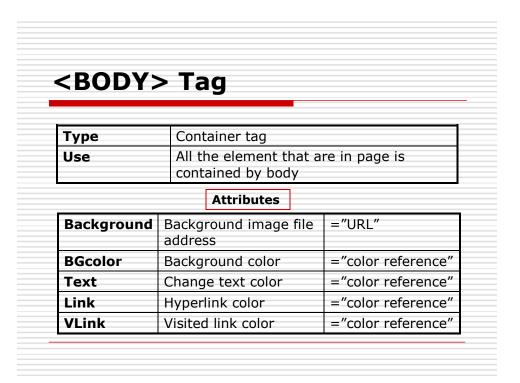
<h1> we can use this tag in both head and body tag </h1>

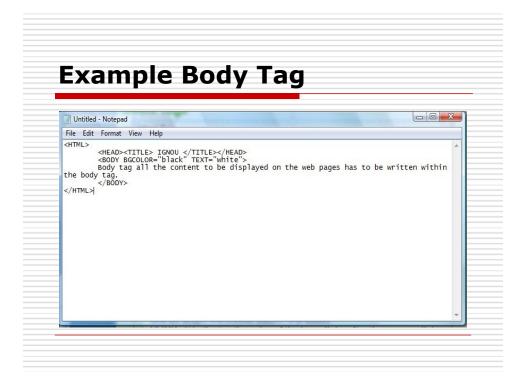
Heading Tag

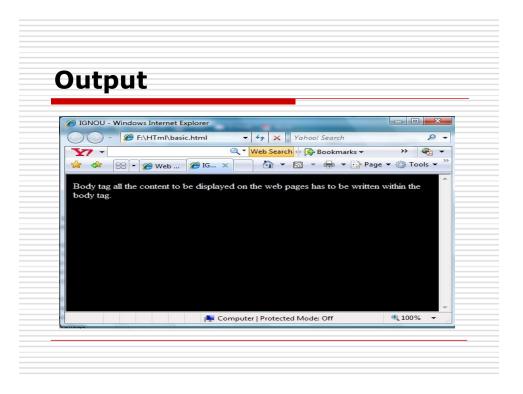
<h1> </h1>	Largest Heading Font
<h2></h2>	Bigger than <h3></h3>
<h3> </h3>	Bigger than <h4></h4>
<h4></h4>	Bigger than <h5></h5>
<h5></h5>	Bigger than <h6></h6>
<h6></h6>	Smallest Heading Font

```
Example of HEAD tag
   <html>
   <head>
     <title> IGNOU </title>
    </head>
   <body>
           <center>
              <H1> Header Level 1 </H1>
              <H2> Header Level 2 </H2>
              <H3> Header Level 3 </H3>
              <H4> Header Level 4 </H4>
              <H5> Header Level5 </H5>
              <H6> Header Level 6 </H6>
          </center>
   </body>
   </html>
```









Text Styling Boldfaces <i> </i> Italic <u> </u> Underline text subscript text Superscript text <big> </big> Text is made larger than current size <small> </small> Text is made smaller than current

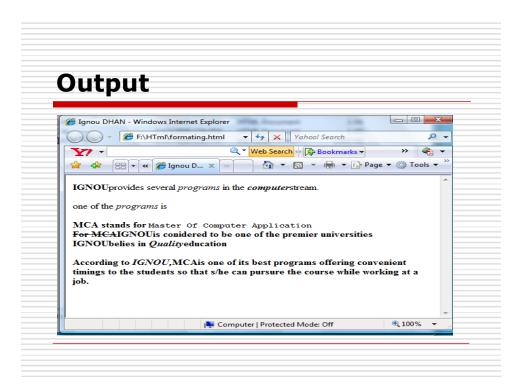
Logical form for strong emphasis

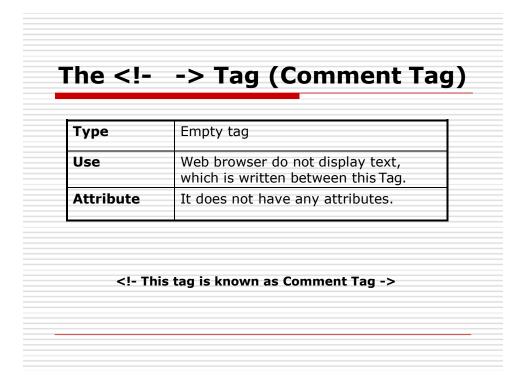
Text Styling

	Create paragraph in document
<tt> </tt>	Text display like typewriter
<s></s>	Character pass with strike through
<strike></strike>	
 	Emphasizing the text
	Breaking the line
<hr/>	Put horizontal line on the page
<noshade></noshade>	Preventing any shade effect
<cite><cite></cite></cite>	Same as italic

Example of Text Styling

```
<hbody>
<html>
<head>
<title> Ignou DHAN </title>
</head>
<body><b>IGNOU</b>provides several <i>programs </i>in the
<b><i>computer</i><b>stream.
one of the <i>programs </i>is <b>
<b>MCA </b>stands for
<tt>Master Of Computer Application</tt>
<br/>
<br/>
<br/>
is conidered to be one of the premier universities
<br/>
<
```





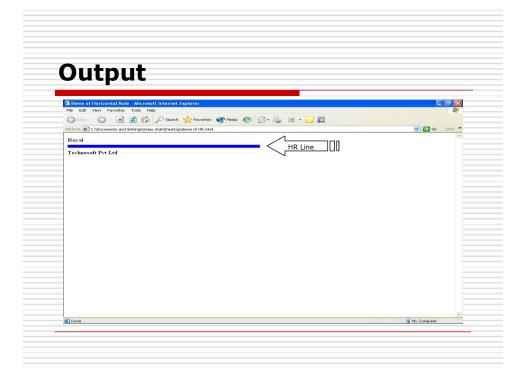
<HR> Tag

Туре	Empty tag
Use	It is used to draw horizontal line across the page. An image can be specified to customize the rule on web page.
Attributes	It has several Attributes.

Empty tag means it has no closing tag <HR>

Attributes of HR

src	It is used to specify the location of a custom image to be used instead of the default lime. Image is used as normal URL.
align	Used to specify alignment of the Horizontal rule. Its values like LEFT, RIGHT, CENTER.
noshade	Used to denote that no shading is desired when the horizontal rule is rendered.
Size	Increase and decrease the thickness of line. It specified in pixels i.e size = 100.
width	Its specified the length of the line. Width = 30%
Color	Specify the color of the Horizontal line.



<CENTRE> Tag

Туре	Container Tag
Use	We can put any object at the center place. Objects like images, text, etc.
Attributes	It doesn"t any attributes.

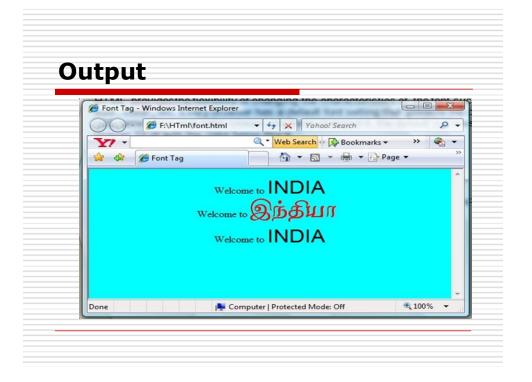
<CENTRE> Objects or element between this is align to Center</CENTRE>

 Tag

Туре	Container Tag
Use	It is used to specify the size of the font being displayed.

Attributes

Align	Used to specify where on the page the headline is to be displayed.
Size	Specified the size of the text. Default is 3. it can lies bet. 1 and 7
face	Specified the font type
Color	Specified the color of the text



<MARQUEE> Tag

Туре	Container Tag
Use	Used to scrolling text marquee. Marquee can be left or right align.
Attributes	It has several attributes.

<MARQUEE> Write your text </MARQUEE>

Attributes of MARQUEE Tag

align	It can be set to TOP, MIDDLE, and BOTTOM
behavior	It specify how text should behave. It can be set to Scroll: default, it start with right side and continuously run.
	Slide: Start completely and off one side. Alternate can also done L to R and R to L.
bgcolor	Specify the background color pf the marquee.
direction	Specify in which direction text should scroll. Default is LEFT. It can set to RIGHT also.

Attributes of MARQUEE Tag

Hight	Specify the height in pixels or as percentage.
Width	Specify the width in pixels or as percentage.
Hspace	Specifies left and right margins for the outside of the marquee in pixels.
Loop	Loop Specify how many times a marquee will loop when activated.
Scrolldelay	Specify no of millisecond between each successive draw.
Vspace	Specify the top and bottom margins for the outside of the marquee in pixels.

<BLOCKQUOTE> Tag

Туре	Container Tag
Use	Used for displaying text which has margin at left side and right sides, used for extended quotations.

Attributes

nowrap	It is used to prevent the browser from automatically inserting line break.
	You must therefore put line breaks (BR) whenever it is necessary.

Type Container Tag Use It is used for structure HTML documents into unique sections or divisions. Attributes Attributes align It is used to specify where on the page the heading is to be displayed. Values are "Left", "Right", "Center", "Justify". Left is default <DIV> Objects or element between this is align to Center</DIV>

Type Container Tag	
Use	It is used to identify information such as author, address, signature etc.
Attributes	
Nowrap	It is used to prevent the browser from

<PRE> Tag

Туре	Container Tag
Use	It is used to show elements as it is that are written in source file. Means no effect is applied when we used <pre></pre>

Attributes

Nowrap	It is used to prevent the browser from
	automatically inserting line breaks. You
	must put line breaks (BR) whenever it is
	necessary.

<address> Nr. Memnagar Fire station, Vijay Cross Road. Ahd. </address>

The List Tag

- ☐ Lists are easy to read and understand.
- ☐ It is helpful to provide structural information, which is useful to draw attention of the user.
- □ HTML supports various types of lists.
 - 1. Order List (Numbered List)
 - 2. Unordered List (Bulleted List)
 - 3. Definition List

Ordered List Tag

Туре	Container Tag
	An ordered list starts with and end With . tag is used for specified the List Item. tag display in numbered order.

Attributes

type	Used to specify the type list to display beside the item. Its values are "1", "A", "a", "I" etc. default is 1.
start	It is used to reset the sequence number of the list.

 Tag

Туре	Empty Tag
Use	Used to display the items of the list .

Attributes

type	Used to specify the type of icon to display beside the item. Its values are "1", "A", "a", "I" etc.
value	It is used to reset the sequence number of the list.

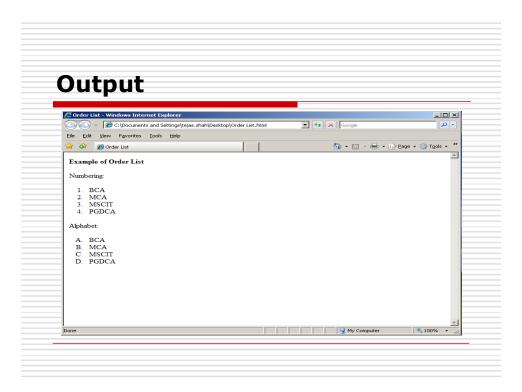
Some Listing Format for Order List

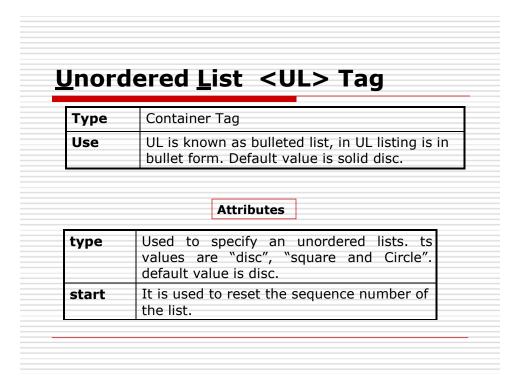
Value	Numbering Style
1	Arabic Number (Digits)
а	Lowercase Alphabet
Α	Uppercase Alphabet
i	Lowercase Roman Numeral
Ι	Uppercase Roman Numeral

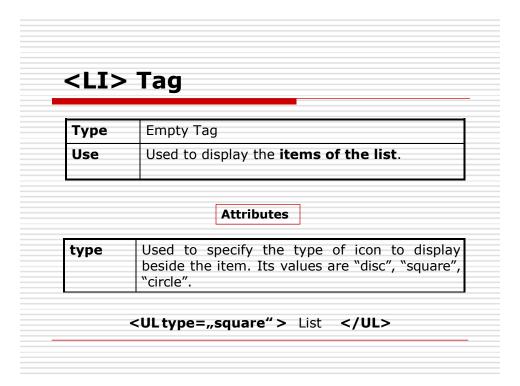
```
<OLtype=",1" start=",3"> List </OL>
```

Ordered List

```
<head><title>Order List</title></head>
 <body><b>Example of Order List</b><br><br>
   Numbering:
            BCA
            MCA
            MSCIT
            PGDCA
        Alphabet: 
           BCA
           MCA
           MSCIT
           PGDCA
        </body>
</html>
```





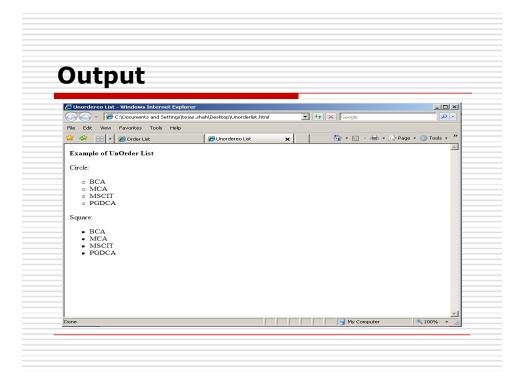


Some Listing Format for Order List

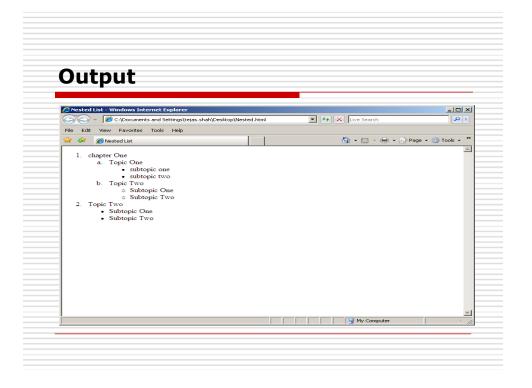
Value	Numbering Style
Disc	Disc Bullet
Circle	Circle Bullet
Square	Square Bullet

<ULtype="square"> List

```
Unordered List
<html>
  <head><title>Unordereo List</title></head>
   <body><b>Example of UnOrder List</b><br><br>
    Circle:
          BCA
          MCA
          MSCIT
          PGDCA
        Square: 
          BCA
          MCA
          MSCIT
          PGDCA
        </body>
</html>
```







Definition List

- □ Definition list is used to develop glossary Lis.
- □ Definition list are starts with <DL> tag and ends with </DL> tag.
- □ <DT> tag and <DD>tag are defined inside the <DL> tag.
- ☐ We can say that DL means definition list and DT means definition term.

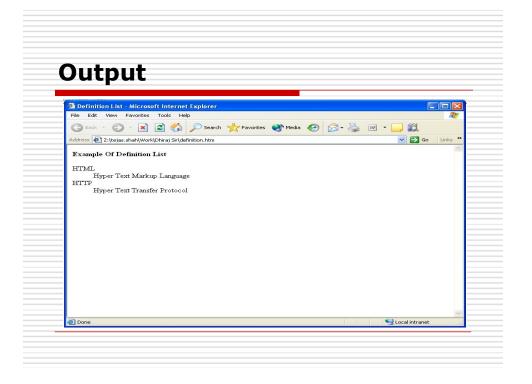
<DL> Tag and <DT> Tag

DL- Definition List

Туре	Empty Tag
Use	Used to define definition lists.
Attributes	It does not have any attribute.

DT- Definition Term

Туре	Empty Tag
Use	Used to define definition Terms.
Attributes	It does not have any attribute.



Special HTML Characters

Symbol	Keywords	Number	Description
			Blank Space
©	©	©	Copyright Sign
R	®	®	Registered
TM	™	™	Trademark
>	>	‹	Greater than
<	<	›	Less than
۸۱	≥	≥	Greater than or equal to
≤	≤	≤	Less than or equal to
II	'	'	Left Single quotation mark
И	'	'	Right Single quotation mark

Link Tag

- ☐ Link allow to link other HTML document or image to the HTML document.
- □ Link are used for navigating between many different web pages containing HTML documents and images.
- ☐ Arrow change the style and become hand that indicate that here is hyper link is used.
- ☐ When we click it open a web page or any html document in same window or different window..
- <A> tag is used for Generating Link.

<A> Tag

Туре	Empty Tag
Use	Used to define definition lists.
Attributes	It does not have any attribute.

Attributes

href	Specify path of the hyper text document. Value should be the source file name.
name	Used to name the link
target	Used to define target where linked page should be opened.

Internal Links

- ☐ Internal link is link within the same web page. it can be absolute link path or relative link path.
- ☐ Complete web address is assigned in absolute link path
- □ Ex. <u>www.google.com/img/int.html</u>
- ☐ In relative link web page location is specified with current directory position such as HTML/relative.html.
- ☐ In Internal link, the link name followed by hash sign(#).

Internal Links

- <A> tag is used for anchor point name, which can be referred with a web page.
- □ On clicking this anchor, it refers to a link and automatically scrolls the browser to the anchor"slocation.
- □ Ex. and link to that name can be referred as Chapter3

External Links

- External link is a link that navigate to other HTML document
- ☐ This link can be absolute link path.
- □ Ex. Chapter-3

Use of mailto in <A> tag

- ☐ Link can be also be used to link to the email address.
- ☐ In <A> tag, value of **href** attribute is set with mailto followed by email address.
- ☐ When user clicks on the link, it will open user"s email client application.
- Its used to specify user where to send email, subject of email.

Assigning link to image

- □ Link can also be assigned to image by defining tag between <A> tag and .

</html>

Images in HTML

Туре	Container Tag
Use	Used to display image on the web page.

Attributes

src	Specify the source of the image.
height	Specify the height of the image. Values can be given in pixels or percentage. E.g. height="50"
width	Used to specify the width of the image. Values can be given in pixels or percentage. E.g. width="50".

Images in HTML

Attributes

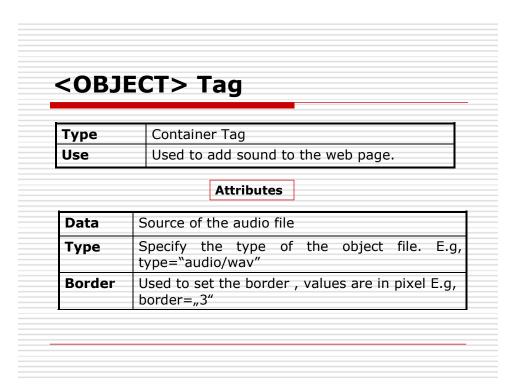
alt	Used to specify the alternate text message, which should be displayed in absence of image.
border	Used to set the image border, values are to be given in pixel. E.g.="3".
hspace	Used to specify horizontal space between text and image.
vspace	Used to specify vertical space between text and image.
align	Used to specify the alignment of the image. Values are Top, Middle, Bottom, Left, Right.

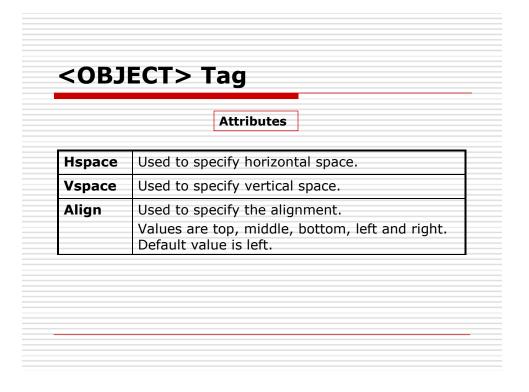
Image Map

- ☐ Image map allow to link different pages with single image.
- ☐ Which is known as external image.
- ☐ Hotspots are the areas defined within the image to provide links to multiple documents.
- ☐ Image map can be implemented on the image by setting map name followed by hash symbol(#) in usemap attribute within tag.

Audio in HTML

- □ Adding audio in HTML document is costly in terms of the file size and download time.
- ☐ There are different way to add sound files to HTML documents.
- Most robust and easy way to add sound to HTML document is to use <OBJECT> tag.
- We can add various sound file format like AU, AIFF, WAV, MIDI, etc to the HTML documents.





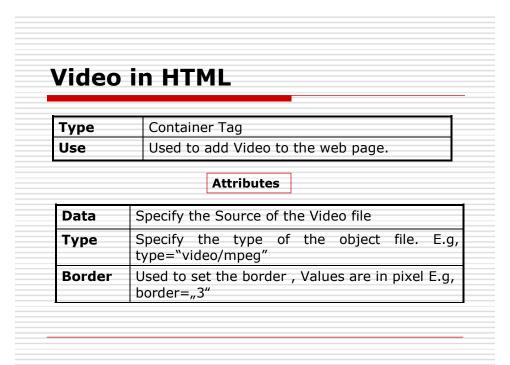
<BGSOUND> Tag

Туре	Empty Tag
Use	Used to add sound to the web page.

Attributes

Src	Used to specify the path of the source of the audio file.
Loop	Used to specify whether the audio will be plays loop or not. It has two value True and False.

<BGSOUND> Tag



Wideo in HTML Attributes Hspac.e Used to specify horizontal space. Vspace Used to specify vertical space. Align Used to specify the alignment. Values are top, middle, bottom, left and right. Default value is left.

Video in HTML

Summary

- HTML is a set of tags and their attributes that define different parts of web document and inform web browsers how to display them.
- Web browser is the software which is used to view HTML document.
- The web browser do not displays text, which is written between <!- and > tag.
- List is helpful to provide structural information, which is useful to draw attention of the user.
- Unordered list is also known as Bulleted List.
- Definition list is used to develop glossary list.
- Links are used for navigating between many different web pages containing HTML documents and images.
- Hotword, used to link with other web page.
- Hotspot is a link assigned to some section of image and it will navigate to some other web page.