**HTML (Basic Concept)**

**Elements and Tags:**

Elements are used to create different type of contents on webpage.

e.g p,pre,h1,h2,h3,h4,h5,h6,hr etc

when elements are closed with brackets than they are known as tags

e.g

<p>,<h1>etc

**How they are used:**

<Element name>content here</element name>

Opening tag closing tag start with /

**Basic Structure:**

<html>opening

.

.

.

</html>end

**Head tag:**

This tag is used to show title of webpage:

<html>

<head>

<title>my first web page</title>

</head>

</html>

**Headings:**

There are 6 tags for heading with difference of size of text. These heading can be used as hyperlinks or hyperlinks texts. They are written under **<body>** tags.every visible part is in body tag.

6 heading tags **are h1, h2, h3, h4, h5, h6,**

<html>

<head>

<title>my first web page</title>

</head>

<body>

<h1>I am a heading</h1>

<h2>I am a heading</h2>

<h3>I am a heading</h3>

<h4>I am a heading</h4>

<h5>I am a heading</h5>

<h6>I am a heading</h6>

</body>

</html>

**Result:**

**I am a heading**

**I am a heading**

**I am a heading**

**I am a heading**

**I am a heading**

**I am a heading**

**PARAGRAPH TAGS :** <P> AND <pre>

**<p>:**print a paragraph between <p> and</p>. this tag offers breaking of line . when a line is finished than it goes on new line.

<p>content of paragraph</p>

**<pre>:**print a paragraph without breaking of line.

<pre>content of paragraph</pre>

**BREAKING OF LINE: (<br>)**

**<p>HI MY NAME IS USAMA</p>**

**<p>HOW ARE U</p>**

In this way we can write 2 sentences on different lines.

**<p>HI MY NAME IS USAMA**

**HOW ARE U </p>**

This is also not possible

<p>HI MY NAME IS USAMA **<br>** HOW ARE U </p>

This tag is used to split 2 sentences

**Horizontal line: <hr>**

<hr>

Also we can add attributes

<hr width=”10%” size=”5px” color=”red” align=”right”>

**TEXT FORMATING:**

To **bold** text:<p><b>this is pakistan</b><b>

To **Italic**:<p><b>this is</b><i>Pakistan</i></p>

**Output:**

**this is** *Pakistan*

**to underline:** <p><u>this is pak</u></p>

**To comment:**

<!-- h1>this is Pakistan</h1-->

**Inserting Table:**

<table>

<thead>

<tr> //to represent row

<td> \*\*\*\* </td> // to represent column

<td> \*\*\*\*</td> // there will table of 1 row and 3 colum

<td> \*\*\*\*</td>

</tr>

</thead>

</table>

We can also add borders in table by adding attribute to first table tag

e.g <table border=”2”>only one time. Whereas number are for thickness of border

for 2 or more rows , first we have to add tags <tbody></tbody> and than we have to add <tr></tr> between <tbody>.but number of columns for that specific row will be inside <tr>

first row will be head of table that’s why we use <thead> tag

for further body of table we use <tbody> in which various number of rows and columns can be added.

To merg one row with anyother row or rows we use **attribute rowspan**

**<tr rowspan=”2”>** here this specific row will merge with next two rows

To merge one column with anyother column we use **attribute colspan**

**<td colspan>** here this specific column will merge with next two columns.

**LISTS:**

There are 3 kinds of lists in html.

**1) Un-Ordered:**

Tag used for unordered list is <ul></ul>

And than <li> this stands for List item.

<ul>

<li> English</li>

<li>Math</li>

</ul>

**Output:**

**Unordered list**

* English
* Physics
* Urdu
* Math

We can change style and bullets

<ul style=list-style-type:none> here no bullets will be printed

**Ordered List:**

Same as unordered list but main tag is <ol></ol>

<ol>

<li>phy</li>

<li>chem</li>

</ol>

**Output:**

**subjects**

* 1. phy
  2. chem

here numbers are used instead of bullets.in ordered list we can use Alphabets or roman numbering.

<ol type=”A”>

1. phy
2. chem

similarly <ol type=”a”>

1. phy
2. chem

similarly <ol type=”I”>

1. phy
2. chem

similarly <ol type=”1”>

1. phy
2. chem

If we want to start list by anyother alphabete forexample G than attribute is.

<ol type=”A” start=”7”>

**Output:**

1. phy
2. chem

similarly for numbers and romans.

**Discription List:**

In this type of list usually there is a heading known as **<dt>(description term)**. And a data under heading .tag used to write data under heading is <dd> (description data)

<dl>

<dt>HTML</dt>

<dd>Hyper text markup language</dd>

<dt>CSS</dt>

<dd>Cascadian style sheet</dd>

</dl>

**HYPERLINKS**

Tag used for hyperlinks is **<a> (anchor).**

**Attribute** used to mention any link whether it is internet link or PC link is **href=” ”**

<a>usama</a>

Here **usama** is main name or heading of link

**<a href=”E:\M.Usama UCP\BE\BEassignment2.pdf ”>usama</a>**

This is pc link.

For internet link: just put http:// before any webpage link . webpage link should be complete www.--------.com

**<a href=”http://www.google.com”>google</a>**

We can also add title for any link . that title will describe about that particular link.when we move mouse cursor on that link, before clicking it than a messege type will appear **.**

**<a href=”http://www.google.com” titel=”go to other webpage”>google</a>**

**Image Tag:**

Tag used is <img> we do not need to close <img> tag.

Attribute for source or location of image is

**<src=” image address”>** image extension must be added.jpg etc

Width and height of image can be adjusted.

**<img src=”image addres” width=”50%” height=”50%”**>

We can also use px(pixels) for size of image.

To set alignment of image we mostly used tag:

**<img src=”address” style=”float:right;”>**

If there is paragraph <p></p> than we use align tag.

**<img src=”address” align=”right”>**

We can also add border on image.

<img src=”address” border=”5”>

**Image as hyperlink:**

We can use image as hyperlink . when we move cursor on image than hand will appear, it means when click on this image than we will go to any other webpage.

Tag:

**<a href=”http://www.google.com”><img src=”address” ></a>**

**Background Image:**

To add background image on any webpage attribute “background=”image address”” in body tag

**<body background=”address”>**

**FORMS.**

Forms are basically input bars

* 1. text input
  2. password
  3. checkboxes
  4. personal detail etc

**Text input forms:** main tag used is <form></form>

To input any text <input > tag is used . we do not need to close input tag.

<form>

NAME: <input type=”text” name=”name”>

</form>

**Output:**

|  |
| --- |
|  |

NAME:

Mostly we see that in input boxes a temporary guiding detail in given

e.g

|  |
| --- |
| first-name |

NAME:

For this purpose an attribute is used <placeholder=”first-name”>

To limit the length of input text

<input maxlength=”5”> here input text is limited to 5 letters only.

To decrease or increase the size of input box we use attribute

<input size=”15”>

**Password input box:**

Password : <input type=”password” name=”password”

Placeholder=”password” maxlength=”9”>

Output:

|  |
| --- |
| password |

Password :

For messages or feedback we use tag <textarea></textarea>

We can controle the size of message box by controlling number of rows and columns.

<textarea cols=”15” rows=”5”></textarea>

Although fixing size of message box we can change the size of box by dragging mouse . to controle this

<textarea style=”resize:none;”></textarea>