

HTML

AN INTRODUCTION TO WEB PAGE PROGRAMMING



INTRODUCTION TO HTML

- **With HTML you can create your own Web site.**
- HTML stands for **Hyper Text Markup Language.**
- HTML is not a programming language, it is a **Markup Language.**
- A markup language is a set of **markup tags.**
- HTML uses **markup tags** to describe web pages.
- HTML is **not case sensitive** language.
- HTML documents **contain HTML tags** and plain text.



HTML Elements and Tags

- A tag is always enclosed in angle bracket <> like <HTML>
- HTML tags normally **come in pairs** like <HTML> and </HTML> i.e.

Start tag = <HTML>

End tag = </HTML>

- Start and end tags are also called **opening tags** and **closing tags**



HOW TO START

- Write html code in notepad.
- Save the file with (.Html)/(.Htm) extension.
- View the page in any web browser viz. INTERNET EXPLORER, NETSCAPE NAVIGATOR etc.
- The purpose of a web browser (like internet explorer or firefox) is to read html documents and display them as web pages.



Code With HTML

<HTML>

<HEAD>

<TITLE>

MY FIRST PAGE

</TITLE>

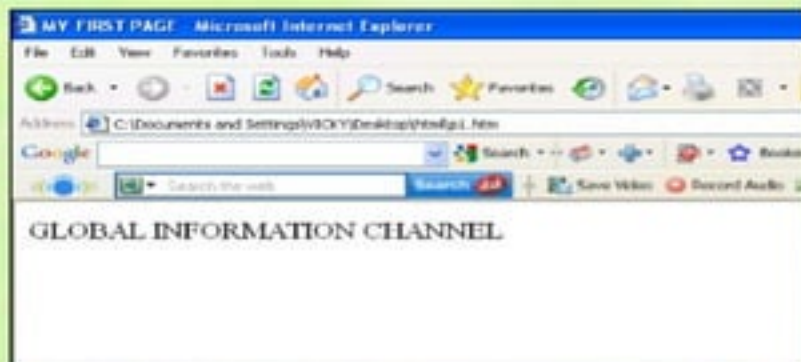
</HEAD>

<BODY>

GLOBAL INFORMATION CHANNEL

</BODY>

</HTML>



Explain these tags

- **<HTML>** - Describe HTML web page that is to be viewed by a web browser.
- **<HEAD>** - This defines the header section of the page.
- **<TITLE>** - This shows a caption in the title bar of the page.
- **<BODY>** - This tag show contents of the web page will be displayed.



Types of HTML Tags

There are two different types of tags:->

Container Element:->

Container Tags contains **start tag** & **end tag** i.e.
`<HTML>... </HTML>`

Empty Element:->

Empty Tags contains **start tag** i.e.
`
`



Text Formatting Tags

Heading Element:->

- There are six heading elements (<H1>,<H2>,<H3>,<H4>, <H5>,<H6>).
- All the six heading elements are container tag and requires a closing tag.
- **<h1>** will print the **largest heading**
- **<h6>** will print the **smallest heading**

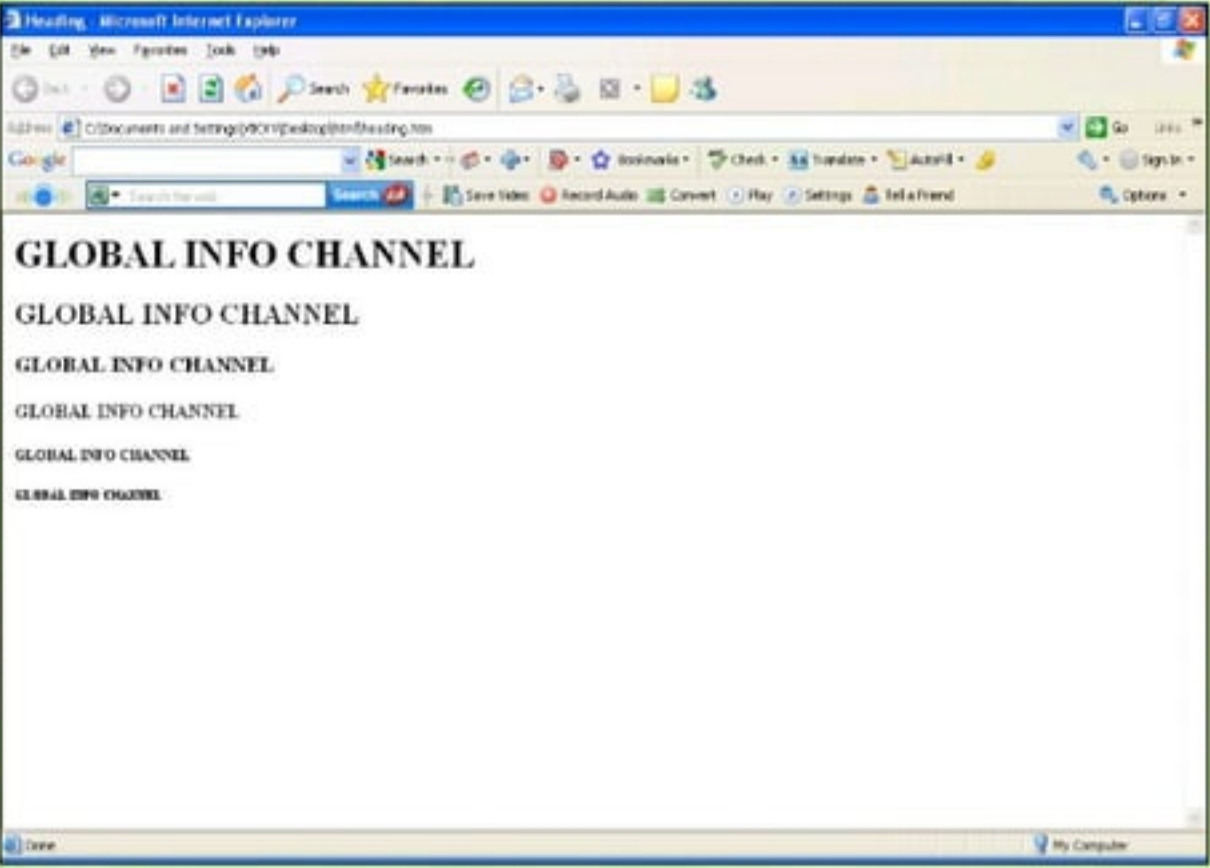


Heading Tag Code

```
<html>  
<title>heading</title>  
<body>  
<h1> GLOBAL INFO CHANNEL</h1>  
<h2> GLOBAL INFO CHANNEL</h2>  
<h3> GLOBAL INFO CHANNEL</h3>  
<h4> GLOBAL INFO CHANNEL</h4>  
<h5> GLOBAL INFO CHANNEL</h5>  
<h6> GLOBAL INFO CHANNEL</h6>  
</body>  
</html>
```



A green-tinted image of the Earth, showing the continents of Africa, Europe, and Asia. The image is a circular globe with a green background. The landmasses are depicted in a darker green color, while the oceans are a lighter green. The perspective is from a slightly elevated position, looking down at the globe. The continents of Africa, Europe, and Asia are clearly visible, with their outlines defined by the darker green color. The image has a soft, slightly blurred appearance, giving it a dreamlike or ethereal quality.



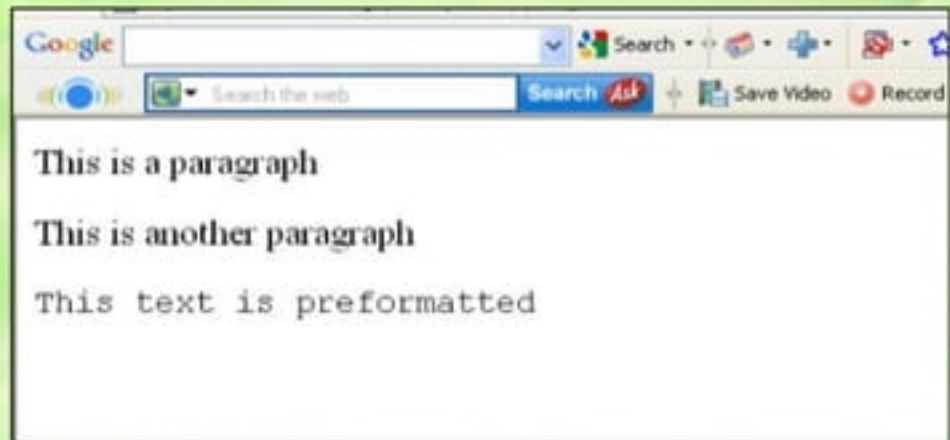
HTML Paragraph Tag

- HTML documents are divided into paragraphs.
- Paragraphs are defined with the **<p>** tag i.e.

`<p>This is a paragraph</p>`

`<p>This is another paragraph</p>`

`<pre>This text is preformatted</pre>`



Line Break & Horizontal Line Tag

- if you want a line break or a new line without starting a new paragraph Use the `
` tag.
- Defines a horizontal line use `<hr>` tag.
- `
` `<hr>` element are empty HTML element i.e. Global Information Channel

Global Information
 Channel



Text Formatting Tags

	Defines bold text
<big>	Defines big text
	Defines emphasized text
<i>	Defines italic text
<small>	Defines small text
	Defines strong text
<sub>	Defines subscripted text
<sup>	Defines superscripted text
<ins>	Defines inserted text
	Defines deleted text
<tt>	Defines teletype text
<u>	Defines underline text
<strike>	Defines strike text

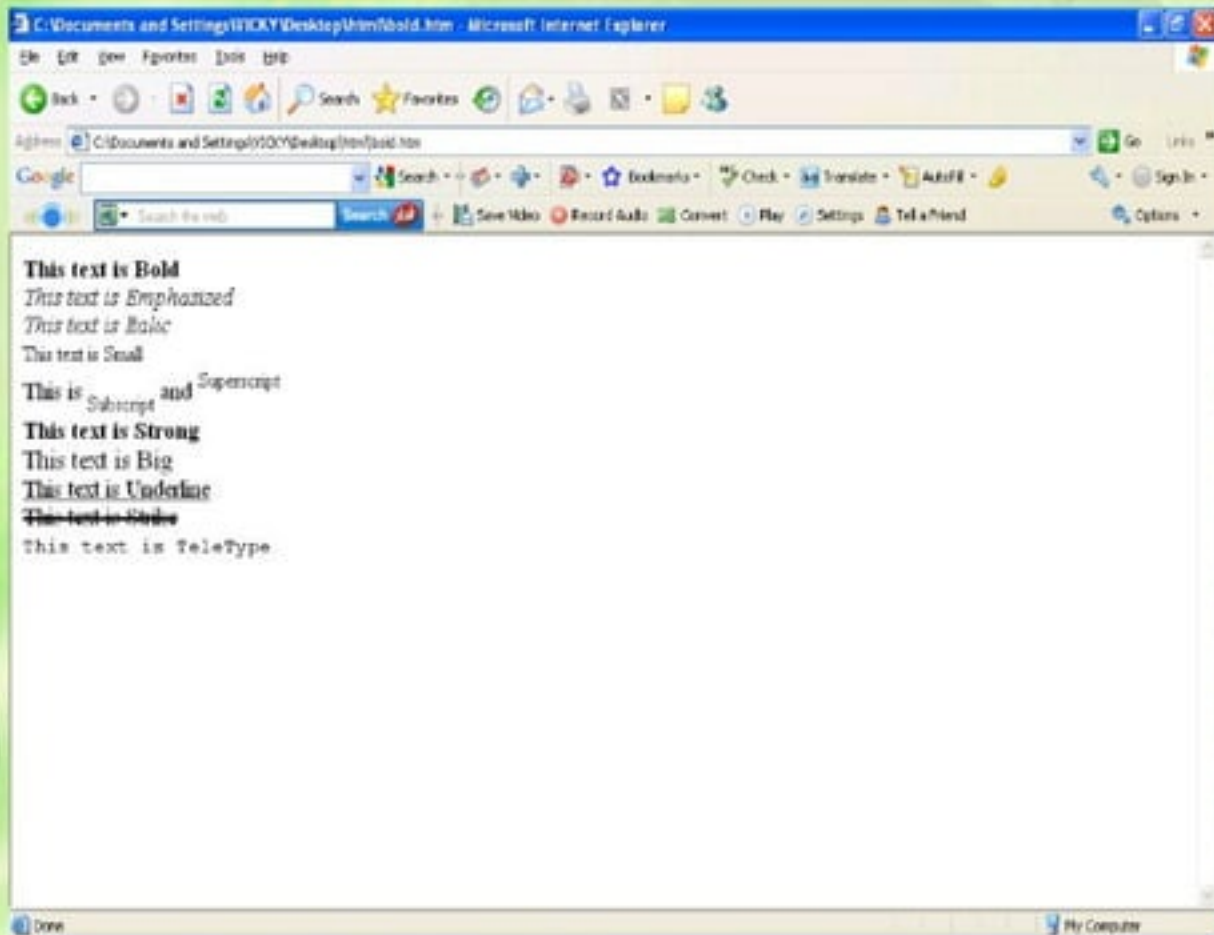


Text Formatting Code

```
<html>
<head></head>
<body>
<b>This text is Bold</b>
<br><em>This text is Emphasized</em>
<br><i>This text is Italic</i>
<br><small>This text is Small</small>
<br>This is<sub> Subscript</sub> and
<sup>Superscript</sup>
<br><strong>This text is Strong</strong>
<br><big>This text is Big</big>
<br><u>This text is Underline</u>
<br><strike>This text is Strike</strike>
<br><tt>This text is Teletype</tt>
</body>
</html>
```



Result of Text Formatting Code



Font Tag

- This element is used to format the **size**, **typeface** and **color** of the enclosed text.
- The commonly used fonts for web pages are Arial, Comic Sans MS , Lucida Sans Unicode, Arial Black, Courier New, Times New Roman, Arial Narrow, Impact, Verdana.
- The size attribute in font tag takes values from **1 to 7**.

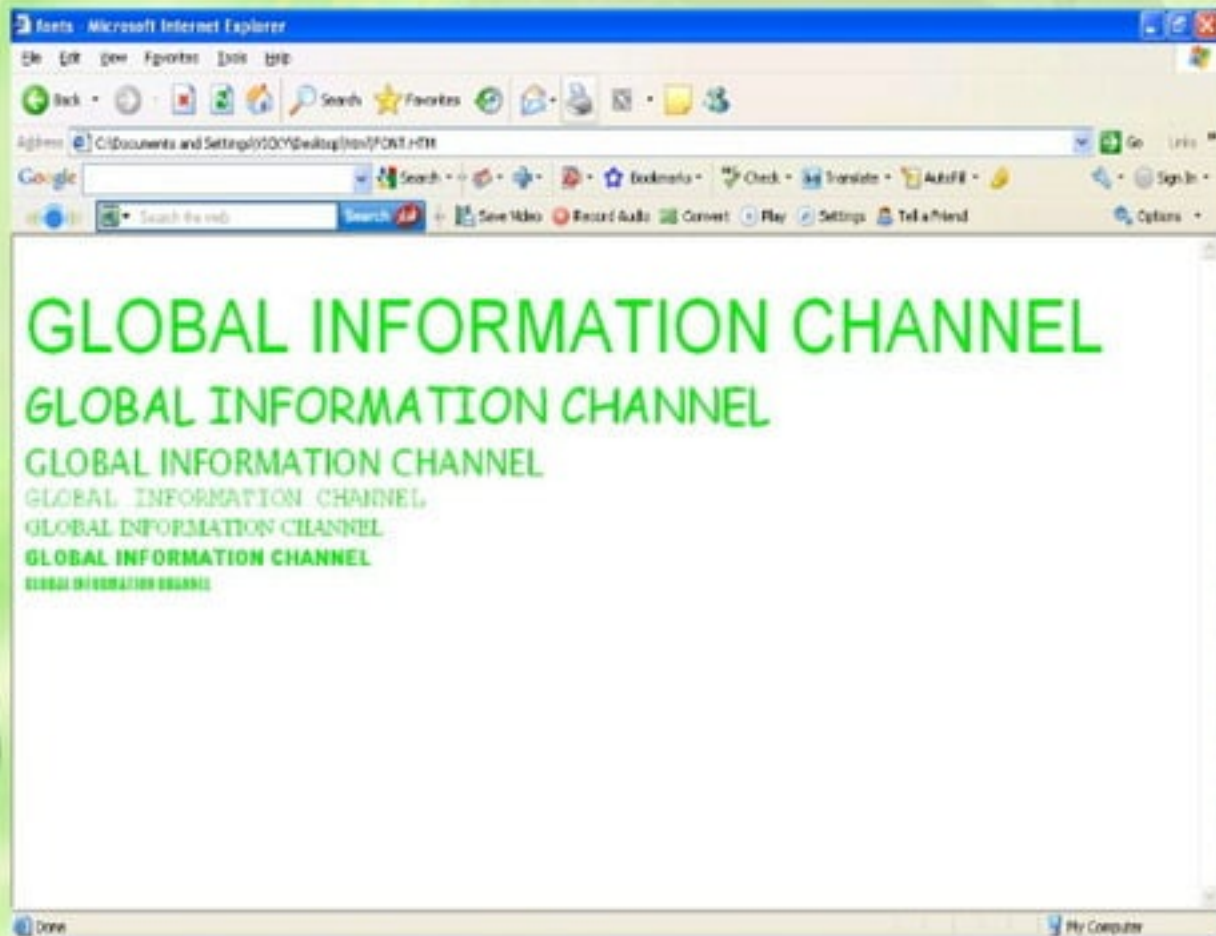


Font Tag Code

```
<html>
<head><title> fonts</title></head>
<body>
<br><font color="green" size="7" face="Arial"> GLOBAL
INFORMATION CHANNEL </font>
<br><font color="green" size="6" face="Comic Sans MS ">
GLOBAL INFORMATION CHANNEL </font>
<br><font color="green" size="5" face="Lucida Sans Unicode">
GLOBAL INFORMATION CHANNEL </font>
<br><font color="green" size="4" face="Courier New"> GLOBAL
INFORMATION CHANNEL </font>
<br><font color="green" size="3" face="Times New Roman">
GLOBAL INFORMATION CHANNEL </font>
<br><font color="green" size="2" face="Arial Black"> GLOBAL
INFORMATION CHANNEL </font>
<br><font color="green" size="1" face="Impact"> GLOBAL
INFORMATION CHANNEL </font>
</body>
</html>
```



Result of Font Code



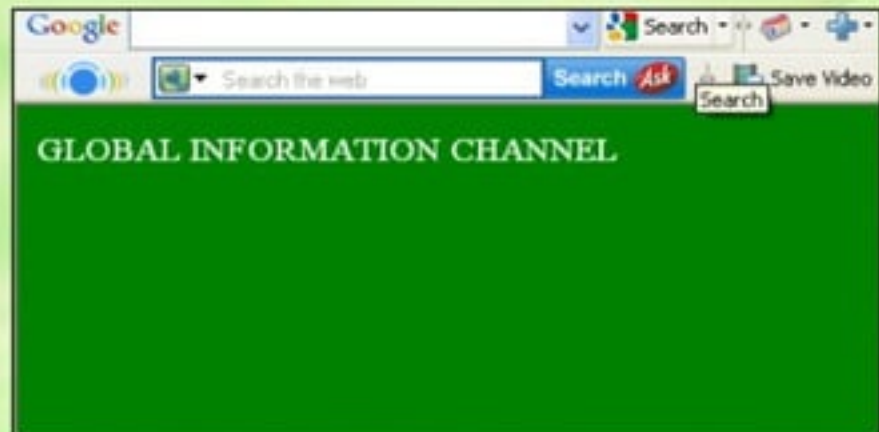
Background & Text Color Tag

- The attribute bgcolor is used for changing the back ground color of the page.

`<body bgcolor="Green" >`

- Text is use to change the color of the enclosed text.

`<body text="White">`



Text Alignment Tag

- It is use to alignment of the text.
 - 1.Left alignment <align="left">
 - 2.Right alignment <align="right">
 - 3.Center alignment <align="center">



Hyperlink Tag

- A hyperlink is a reference (an address) to a resource on the web.
- Hyperlinks can point to any resource on the web: an HTML page, an image, a sound file, a movie, etc.
- The HTML anchor element `<a>`, is used to define both hyperlinks and anchors.

`Link text`

- The **href attribute** defines the link address.

`Visit globalinfochannel!`



Result of Hyperlink Code



Image Tag

- To display an image on a page, you need to use the src attribute.
- src stands for "source". The value of the src attribute is the URL of the image you want to display on your page.
- It is a empty tag.

<IMG SRC="picture.gif" HEIGHT="30"
WIDTH="50">



Image attributes - tag

Defines an image

<Src>

display an image on a page,Src stands for "source".

<Alt>

Define "alternate text" for an image

<Width>

Defines the width of the image

<Height>

Defines the height of the image

<Border>

Defines border of the image

<Hspace>

Horizontal space of the image

<Vspace>

Vertical space of the image

<Align>

Align an image within the text

<background>

Add a background image to an HTML page



Code & Result of the Image



```
<html><body>  
  
<img src = "file:///C:/WINDOWS/Zapotec.bmp"  
align="right" width="48" height="48">  
</body></html>
```



```
<HTML>  
<<body background="file:///C:/WINDOWS/Soap  
%20Bubbles.bmp" text="white">  
<br><br><br>  
<h2> Background Image!</h2>  
</BODY></HTML>
```



Code & Result of the Image



```
<html><body>
<p>An image
&ltimg src="file:///C:/WINDOWS/Zapotec.bmp"
align="bottom" width="48" height="48"> in the text</p>
<p>An image
&ltimg src ="file:///C:/WINDOWS/Zapotec.bmp"
align="middle" width="48" height="48"> in the text</p>
<p>An image
&ltimg src ="file:///C:/WINDOWS/Zapotec.bmp"
align="top" width="48" height="48"> in the text</p>
<p>Note that bottom alignment is the default alignment</p>
<p><img src ="file:///C:/WINDOWS/Zapotec.bmp"
width="48" height="48">
An image before the text</p>
<p>An image after the text
&ltimg src ="file:///C:/WINDOWS/Zapotec.bmp"
width="48" height="48"> </p>
</body></html>
```



Code & Result of the Image



```
<html><body>  
<p> </p>  
<p><img src ="file:///C:/WINDOWS/Zapotec.bmp"  
align="middle" width="40" height="40"></p>  
<p><img src ="file:///C:/WINDOWS/Zapotec.bmp"  
align="top" width="60" height="60"></p>  
<p><img src ="file:///C:/WINDOWS/Zapotec.bmp"  
width="80" height="80"> </p>  
<p><img src ="file:///C:/WINDOWS/Zapotec.bmp"  
width="100" height="100"> </p>  
</body></html>
```



HTML Table Tag

<table>

used to create table

<tr>

table is divided into rows

<td>

each row is divided into data cells

<th>

Headings in a table

<Caption>

caption to the table

<colgroup>

Defines groups of table columns

<col>

Defines the attribute values for one or more columns in a table

<thead>

Defines a table head

<tbody>

Defines a table body

<tfoot>

Defines a table footer

<Cellspacing>

amount of space between table cells.

<Cellpadding>

space around the edges of each cell

<Colspan>

No of column working with will span

<rowspan>

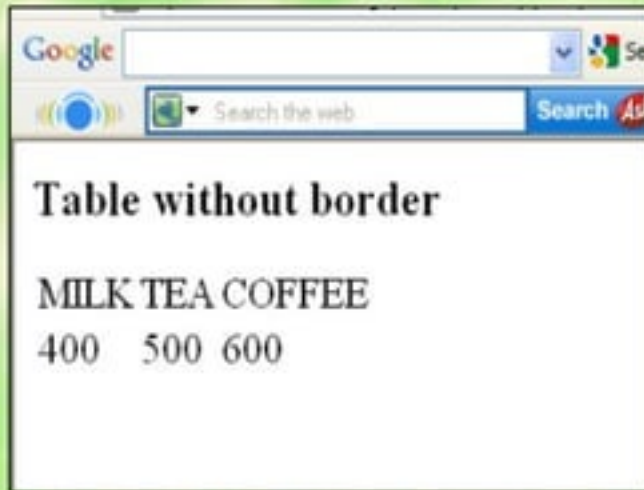
No of rows working with will span

<Border>

attribute takes a number



Code & Result of the Table



```
<html>
<body>
<h3>Table without
border</h3>
<table>
<tr> <td>MILK</td>
<td>TEA</td>
<td>COFFEE</td> </tr>
<tr> <td>400</td>
<td>500</td>
<td>600</td> </tr>
</table>
</body>
</html>
```

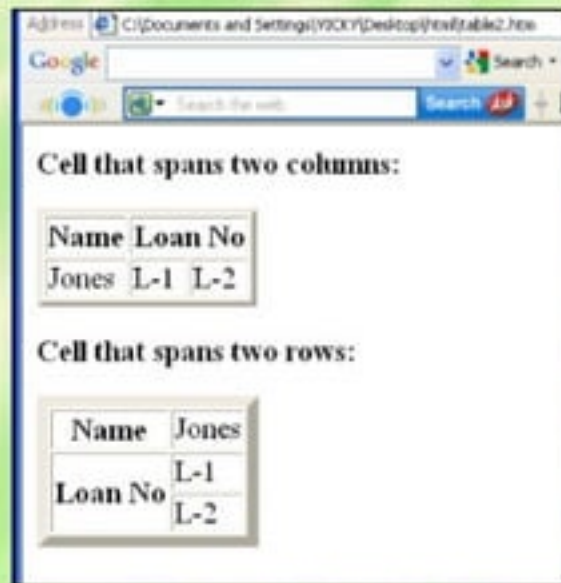


Header

```
<html><body>
<h4>Horizontal Header:</h4>
<table border="1">
<tr> <th>Name</th>
<th>Loan No</th>
<th>Amount</th> </tr>
<tr> <td>Jones</td>
<td>L-1</td>
<td>5000</td></tr> </table><br><br>
<h4>Vertical Header:</h4>
<table border="5">
<tr> <th>Name</th>
<td>Jones</td> </tr>
<tr> <th>Loan No</th>
<td>L-1</td> </tr>
<tr> <th>Amount</th>
<td>5000</td></tr> </table>
</body></html>
```



Table Code with Colspan & Rowspan



```
<html><body>
<h4>Cell that spans two columns:</h4>
<table border="4">
<tr> <th>Name</th>
<th colspan="2">Loan No</th> </tr>
<tr> <td>Jones</td>
<td>L-1</td>
<td>L-2</td> </tr> </table>
<h4>Cell that spans two rows:</h4>
<table border="8">
<tr> <th>Name</th>
<td>Jones</td></tr><tr>
<th rowspan="2">Loan No</th>
<td>L-1</td></tr><tr>
<td>L-2</td></tr></table>
</body></html>
```



Table Code with Caption & ColSpacing



```
<html>
<body>
<table border="1">
<caption>My Caption</caption>
<tr>
<td>Milk</td>
<td>Tea</td>
</tr>
<tr>
<td></td>
<td>Coffee</td>
</tr>
</table>
</body>
</html>
```


Cellpadding, Image & Background Color Code



```
<html><body>
<h3>Without cellpadding:</h3>
<table border="2" bgcolor="green">
<tr> <td>Jones</td>
<td>Smith</td></tr>
<tr> <td>Hayes</td>
<td>Jackson</td></tr></table>
<h4>With cellpadding:</h4>
<table border="8"
cellpadding="10"
background="file:///C:/WINDOWS/FeatherTexture.b
mp">
<tr> <td>Jones</td>
<td>Smith</td></tr>
<tr> <td>Hayes</td>
<td>Jackson</td></tr></table>
</body></html>
```

HTML List Tag

- Lists provide methods to show item or element sequences in document content. There are three main types of lists:->
 1. **Unordered lists**:-unordered lists are bulleted.
 2. **Ordered lists**:- Ordered lists are numbered.
 3. **Definition lists**:- Used to create a definition list



List Tags

- | | |
|-------------------|--|
| | is an empty tag, it is used for representing the list items |
| | Ordered list |
| | Unordered list |
| <DL> | Defines a definition list |
| <DT> | Defines a term (an item) in a definition list |
| <DD> | Defines a description of a term in a definition list |



Unordered List

- TYPE attribute to the tag to show different bullets like:-
 - 1.Disc
 - 2.Circle
 - 3.Square

<ul Type =“disc”>.....

- The attribute TYPE can also be used with element.



Code & Result of the Unordered List



```
<html><body>
<h4>Disc bullets list:</h4>
<ul type="disc"> <li>Jones</li>
<li>Smith</li>
<li>Hayes</li>
<li>Jackson</li></ul>
<h4>Circle bullets list:</h4>
<ul type="circle"> <li>Jones</li>
<li>Simth</li>
<li>Hayes</li>
<li>Jackson</li></ul>
<h4>Square bullets list:</h4>
<ul type="square"> <li>Jones</li>
<li>Smith</li>
<li>Hayes</li>
<li>Jackson</li></ul>
</body></html>
```



Ordered List

- The TYPE attribute has the following value like:-
 - 1.TYPE = "1" (Arabic numbers)
 - 2.TYPE = "a" (Lowercase alphanumeric)
 - 3.TYPE = "A" (Uppercase alphanumeric)
 - 4.TYPE = "i" (Lowercase Roman numbers)
 - 5.TYPE = "I" (Uppercase Roman numbers)
- By default **Arabic numbers** are used



Code & Result of the Ordered List



List

```
<html><body>
<h4>Numbered list:</h4>
<ol> <li>Jones</li>
<li>Smith</li>
<li>Hayes</li>
<li>Jackson</li></ol>
<h4>Letters list:</h4>
<ol type="A"> <li>Jones</li>
<li>Smith</li>
<li>Hayes</li>
<li>Jackson</li></ol>
<h4>Roman numbers list:</h4>
<ol type="I"> <li>Jones</li>
<li>Smith</li>
<li>Hayes</li>
<li>Jackson</li></ol>
</body></html>
```

HTML Form

- A form is an area that can contain form elements.
- Form elements are elements that allow the user to enter information in a form. like text fields, textarea fields, drop-down menus, radio buttons and checkboxes etc
- A form is defined with the **<form>** tag.
- The syntax:-

<form>

.

input elements

.

</form>



Form Tags

<form>

Defines a form for user input
used to create an input field

<input>

<text>

Creates a single line text entry field

<textarea>

Defines a text-area (a multi-line text input control)

<password>

Creates a single line text entry field. And the
characters entered are shown as asterisks (*)

Defines a label to a control

Creates a Radio Button.

<label>

Defines a selectable list (a drop-down box)

<option>

<select>

Defines a push button

attribute of the option element.

select or unselect a checkbox

A drop-down box is a selectable list

<button>

<value>

<checkbox>

<dropdown box>



Code of the HTML Form

```
<html><body><form>
<h1>Create a Internet Mail Account</h1>
<p>First Name <input type="text" name="T1" size="30"></p>
<p>Last Name <input type="text" name="T2" size="30"></p>
<p>Desired Login Name <input type="text" name="T3" size="20">
@mail.com</p>
<p>Password <input type="password" name="T4" size="20"></p>
<input type="radio" checked="checked" name="sex" value="male" />
Male</br>
<input type="radio" name="sex" value="female" /> Female
<p>Birthday <input type="text" name="T6" size="05">
<select size="1" name="D2">
<option>-Select One-</option>
<option>January</option>
<option>February</option>
<option>March</option> </select>
<input type="text" name="T7" size="10"></p>
Type Yourself<textarea rows="4" name="S1" cols="20"></textarea>
<br><input type="submit" value="Accept" name="B1"> <input
type="reset" value="Cancel" name="B2"></br> </form></body></html>
```



Result of the Form Code

C:\Documents and Settings\WIKY\Desktop\InternetForen1.htm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail News RSS Feeds

Address Bar: file:///C:/Documents%20and%20Settings/WIKY/Desktop/InternetForen1.htm?T1=6J72w6J72w6J74euseswmsd6J71=820+Select+One-9J72=9J2=9J2+Accept

Google Search Bookmarks Check Translate AutoFill Sign In

Create a Internet Mail Account

First Name

Last Name

Desired Login Name @mail.com

Password

☒ Male
☐ Female

Birthday -Select One-

Type Yourself
Accept Cancel