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 derived from a language **SGML (Standard Graphics Markup Language)**.
- The future of HTML is **XML (eXtended 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.

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**

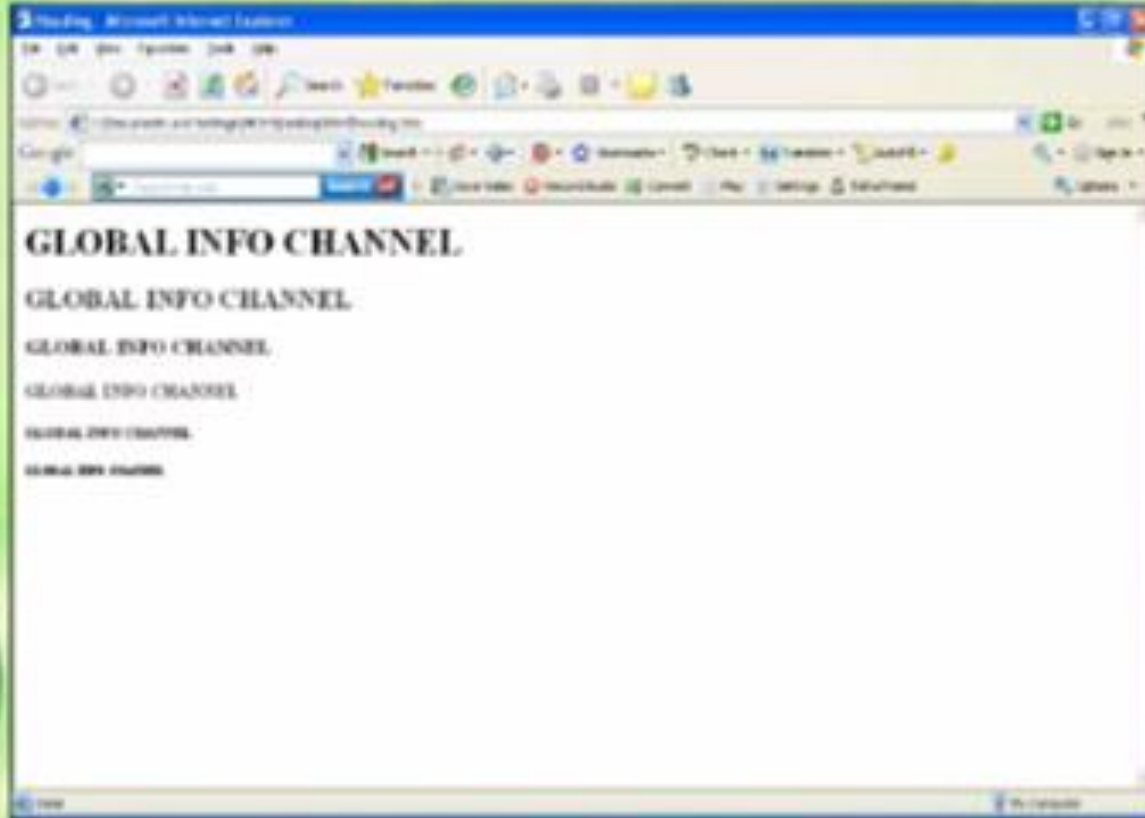# Heading Tag Code

```
<html>
<head><title>heading</title></head>
<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>
```
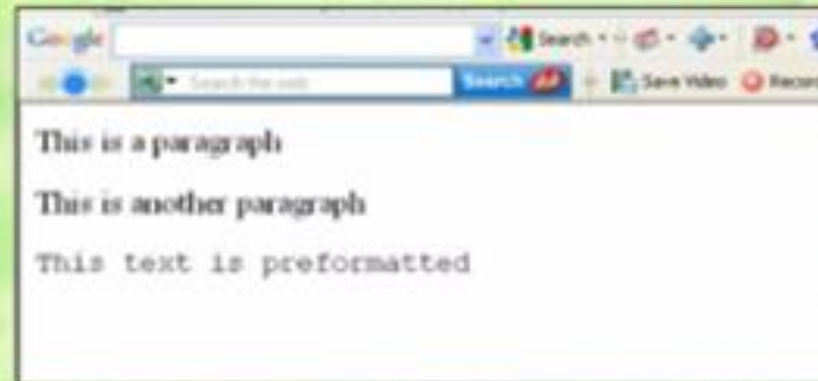
Result of Heading Code

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 <br> tag.
- Defines a horizontal line use <hr>tag.

-
 <hr> element are empty HTML element i.e. Global Information Channel<hr>

Global Information
 Channel

GLOBAL INFORMATION CHANNEL

GLOBAL INFORMATION
CHANNEL

Text Formatting Tags

Tag	Description
<b>	Defines bold text
<big>	Defines big text
<em>	Defines emphasized text
<i>	Defines italic text
<small>	Defines small text
<strong>	Defines strong text
<sub>	Defines subscripted text
<super>	Defines superscripted text
<ins>	Defines inserted text
<del>	Defines deleted text
<tt>	Defines teletype text
<u>	Defines underline text
<strike>	Defines strike text

Text Formatting Code
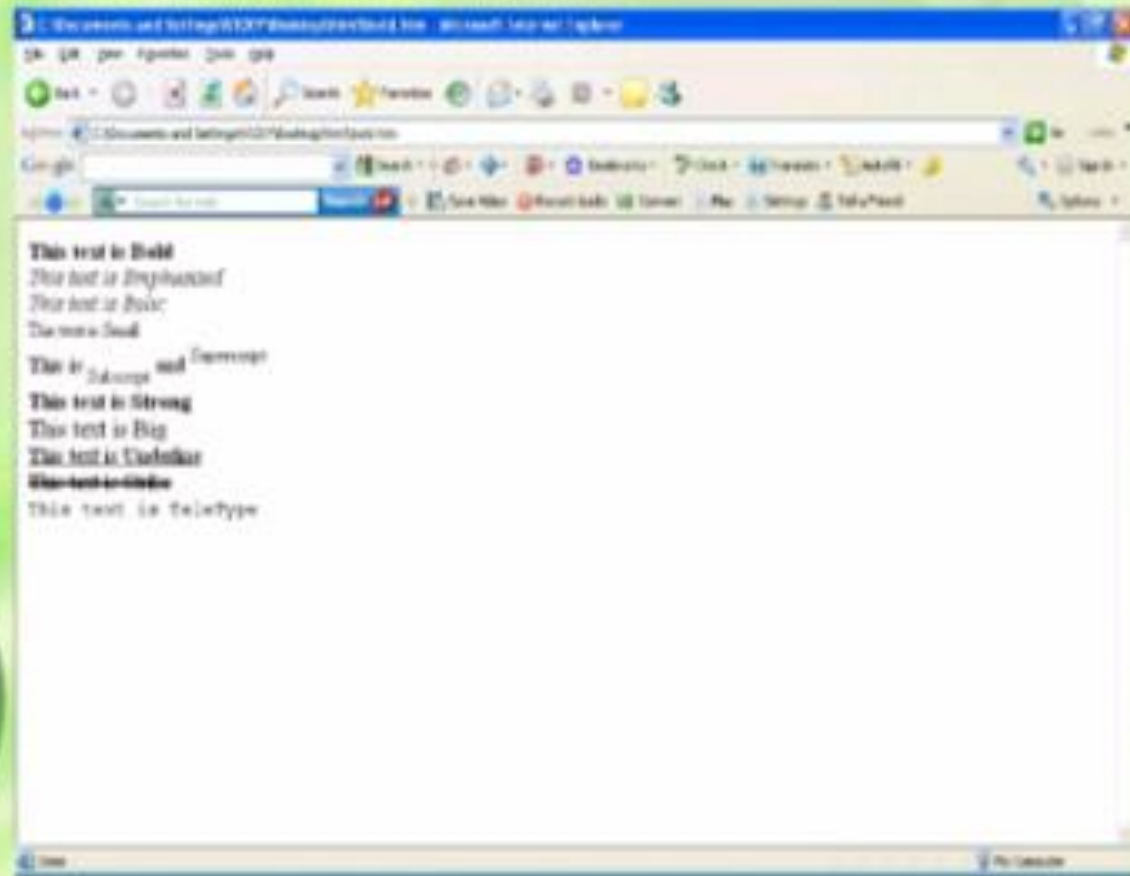
```
<html>
<head></head>
<body>
<b>This text is Bold</b>
<br><em>This text is Emphasized</em>
<br><i>This text is Italic</i>
<br><small>This text is Small</small>
<br>This is<sub> Subscript</sub> and
<sup>Superscript</sup>
<br><strong>This text is Strong</strong>
<br><big>This text is Big</big>
<br><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>
```
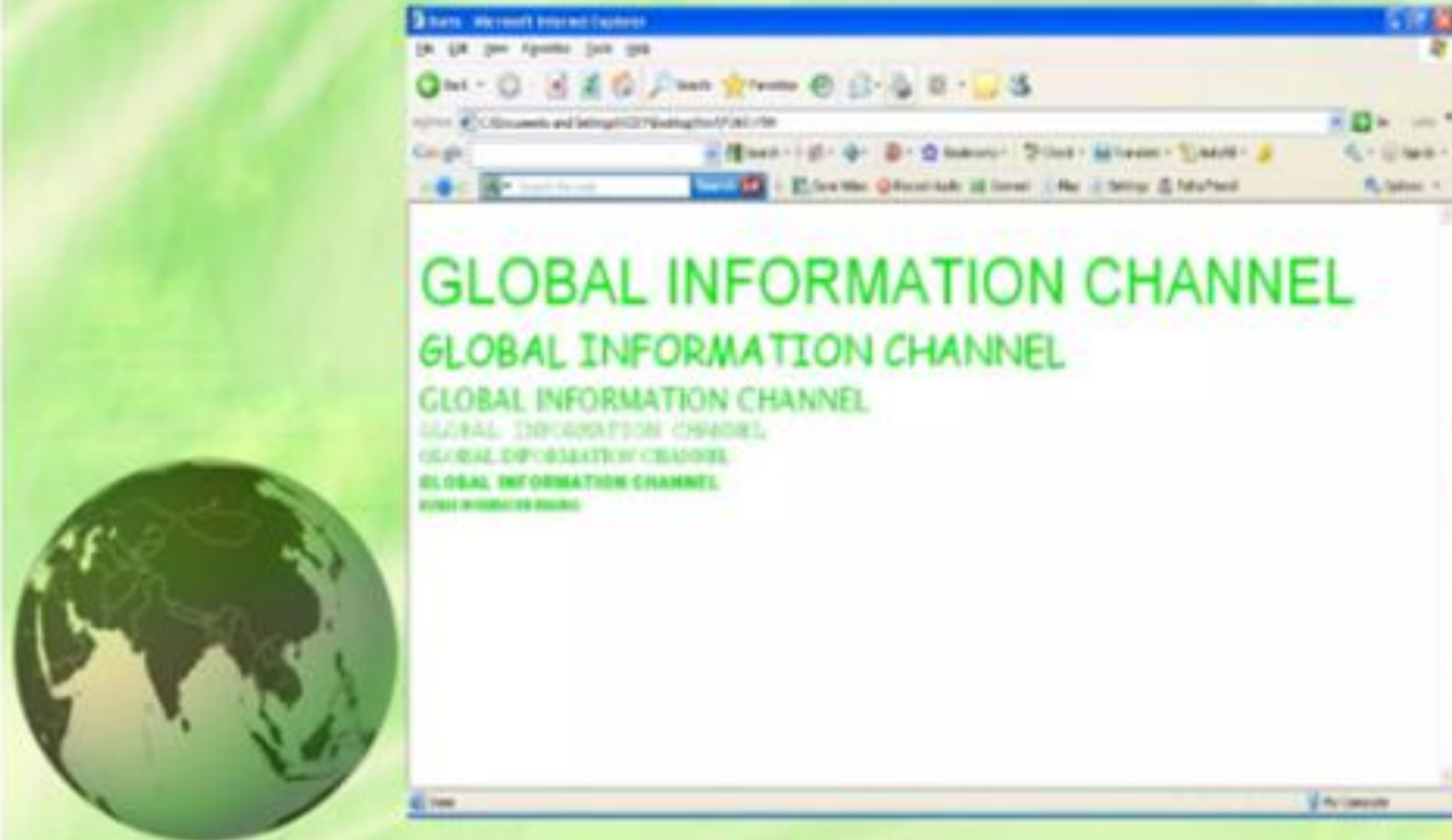
Result of Font Code

Text Alignment Tag

- It is use to alignment of the text.
  - Left alignment <align="left">
  - Right alignment <align="right">
  - 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 ="url">

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

Image attributes - <img> tag

<img>	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>
<p><img
src="file:///C:/WINDOWS/Zapotec.bmp"
align="left" width="48" height="48"> </p>
<p><img src
="file:///C:/WINDOWS/Zapotec.bmp"
align="right" width="48" height="48"></p>
</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
<img src="file:///C:/WINDOWS/Zapotec.bmp"
align="bottom" width="48" height="48"> in the text</p>
<p>An image
<img src ="file:///C:/WINDOWS/Zapotec.bmp"
align="middle" width="48" height="48"> in the text</p>
<p>An image
<img 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
<img src ="file:///C:/WINDOWS/Zapotec.bmp"
width="48" height="48"> </p>
</body></html>
```

Code & Result of the Image

```
<html><body>
<p><img src="file:///C:/WINDOWS/Zapotec.bmp"
align="bottom" width="20" height="20"> </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

Table without border

MILK TEA COFFEE
400   500 600

```
<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
<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>
```
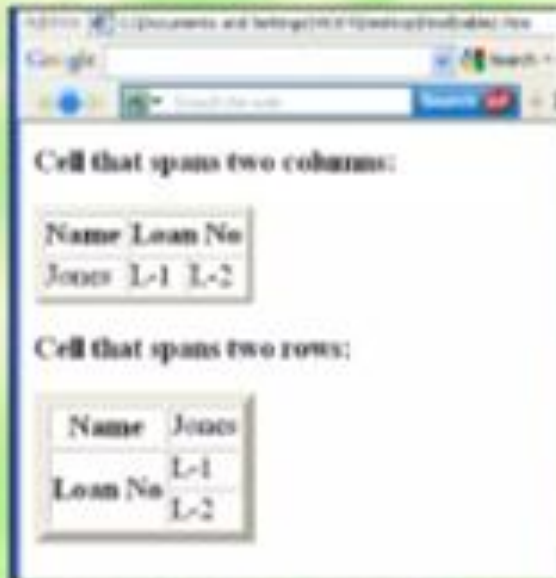
Table Code with Colspan & Rowspan


```html
<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 & Backcolor 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.bmp">
<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:->

  - **Unordered lists:-**unordered lists are bulleted.
  - **Ordered lists:-** Ordered lists are numbered.
  - **Definition lists:-** Used to create a definition list
  .

List Tags

<LI>	<LI> is an empty tag,it is used for representing the list items
<OL>	Ordered list
<UL>	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 <UL> tag to show different bullets like:-
  - Disc
  - Circle
  - Square

**<ul Type ="disc">…..
**

- The attribute TYPE can also be used with <LI> 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>
```
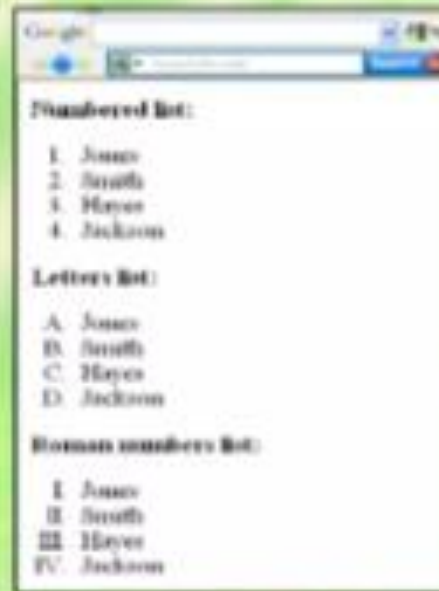
Ordered List

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

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

<table>
<tr><td><form></td><td>Defines a form for user input</td></tr>
<tr><td><input></td><td>used to create an input field</td></tr>
<tr><td><text></td><td>Creates a single line text entry field</td></tr>
<tr><td><textarea></td><td>Defines a text-area (a multi-line text input control)</td></tr>
<tr><td><password></td><td>Creates a single line text entry field. And the characters entered are shown as asterisks (*)</td></tr>
<tr><td></td><td>Defines a label to a control</td></tr>
<tr><td></td><td>Creates a Radio Button.</td></tr>
<tr><td><label></td><td>Defines a selectable list (a drop-down box)</td></tr>
<tr><td><option></td><td></td></tr>
<tr><td><select></td><td></td></tr>
<tr><td></td><td>Defines a push button</td></tr>
<tr><td></td><td>attribute of the option element.</td></tr>
<tr><td><button></td><td>select or unselect a checkbox</td></tr>
<tr><td><value></td><td>A drop-down box is a selectable list</td></tr>
<tr><td><checkbox></td><td></td></tr>
<tr><td><dropdown box></td><td></td></tr>
</table>

Code of the HTML Form

```html
<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>
TypeYourself<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

THANK YOU