

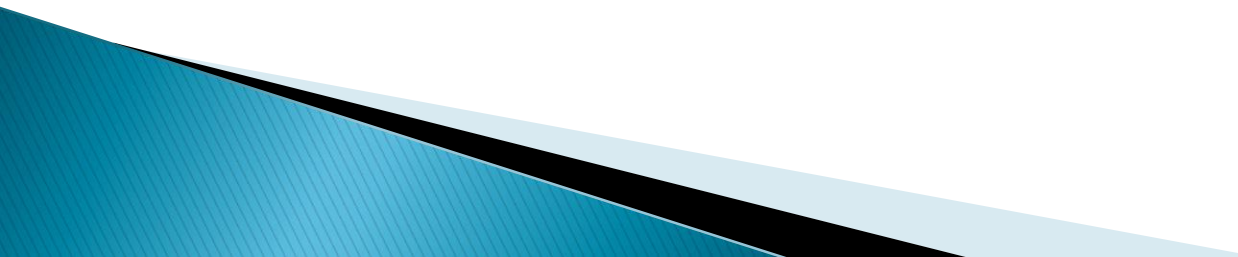
# WEB TECHNOLOGY

## 17UCTE61

# 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

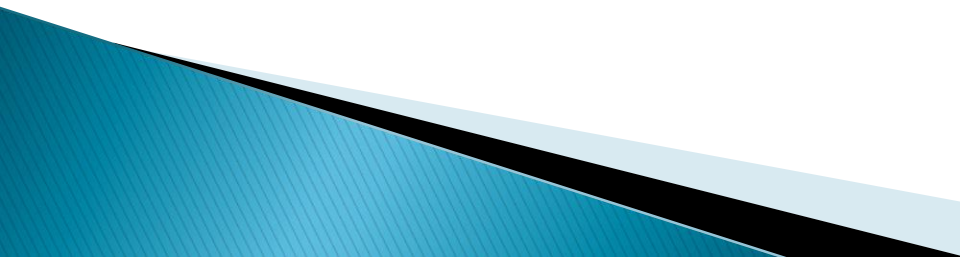
- A tag is always enclosed in angle bracket <>like <HTML>
- HTML tags normally **come in pairs** like <HTML> and </HTML> i.e.

**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. EXPLORER, NETSCAPE NAVIINTERNET GATOR 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>
```

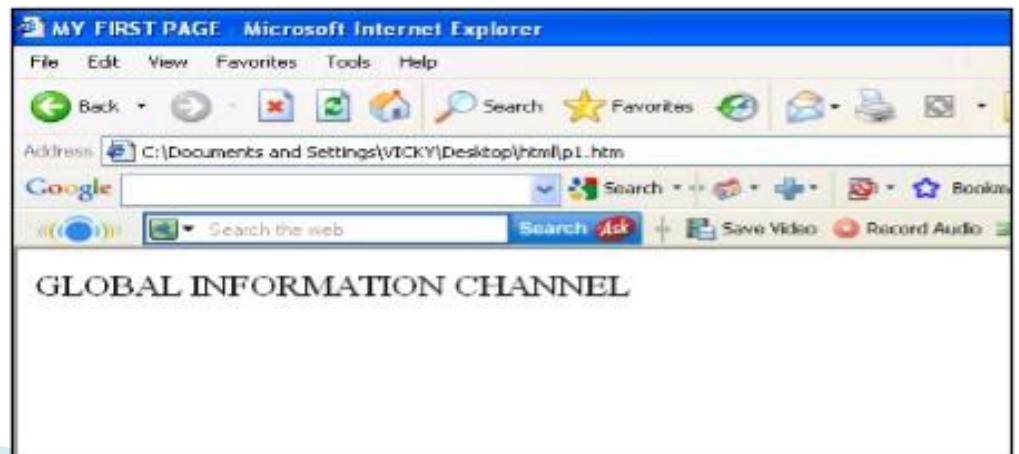
```
</HEAD>
```

```
<BODY>
```

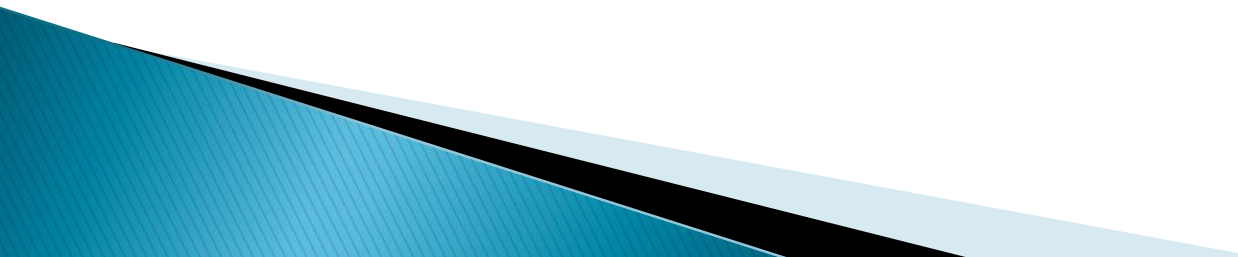
```
GLOBAL INFORMATION CHANNEL
```

```
</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.

`<BR>`

# Text Formatting Tags

## Heading Element:->

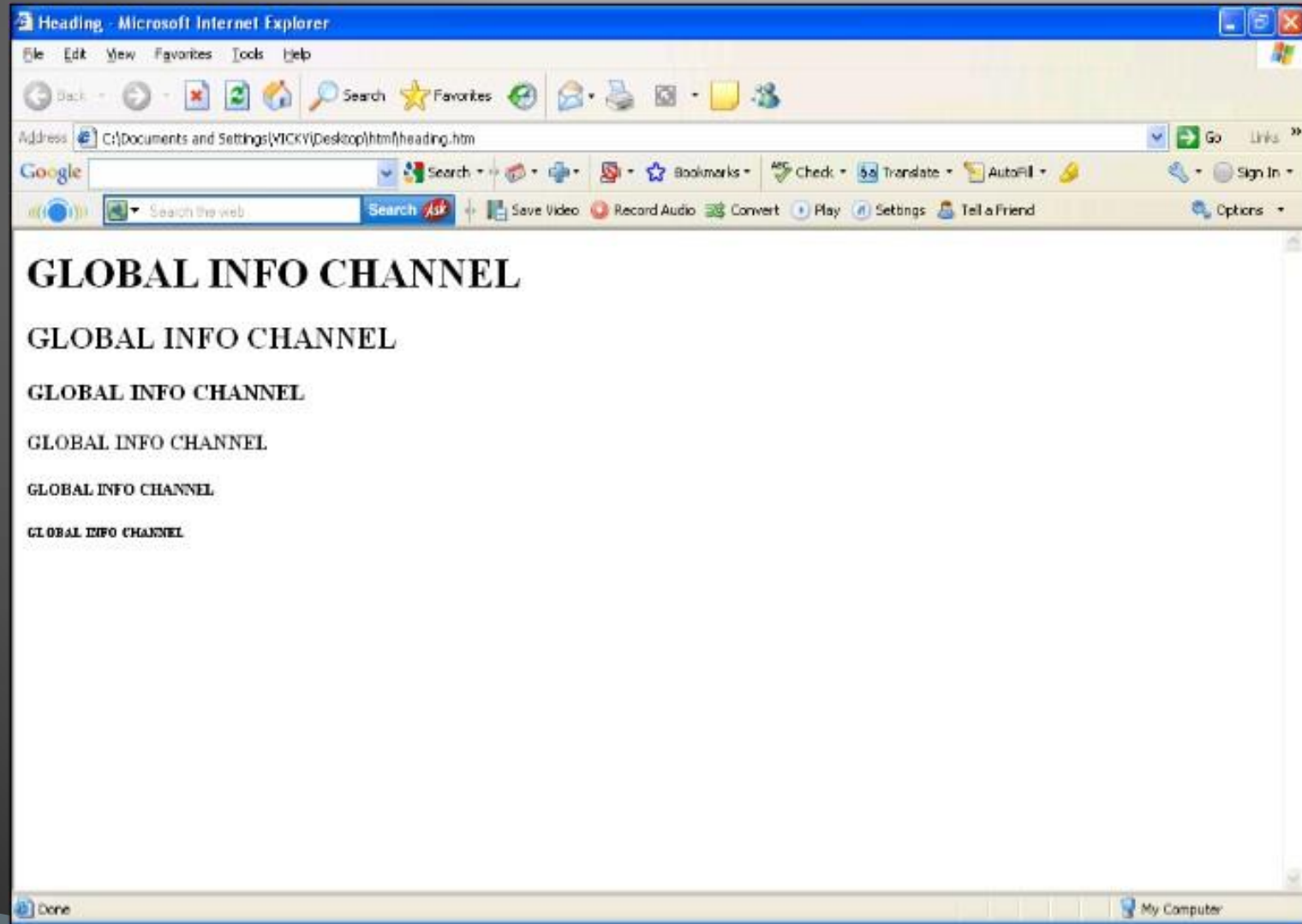
- There are six heading elements (<H1>,<H2>,<H3>,<H4>, <H5>,<H6>).
- All the six heading elements are container tag and requires a closing tag.
- <h1> will print the **largest heading**
- <h6> will print the **smallest heading**



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

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Global Information Channel



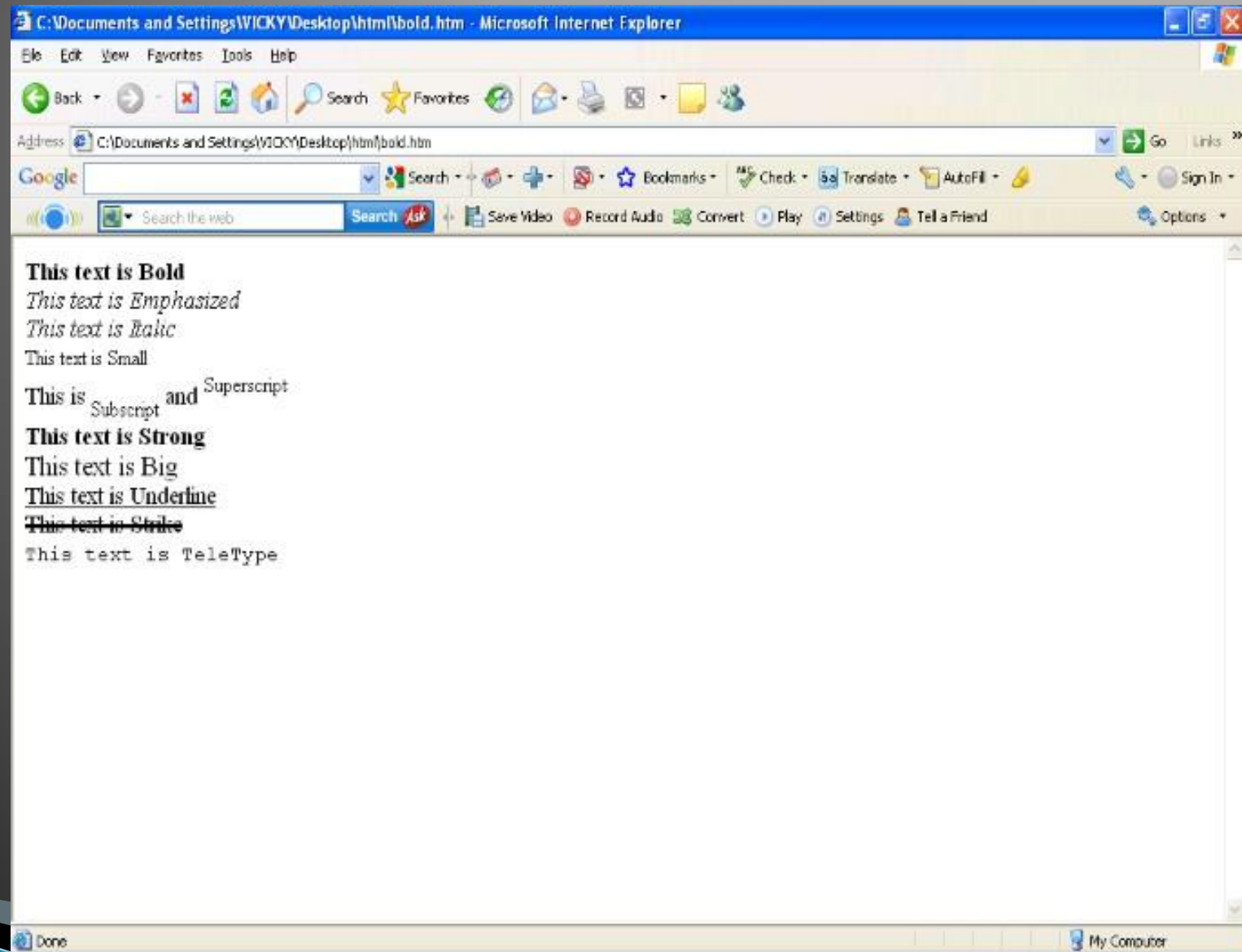
# Text Formatting Tags

<b>&lt;b&gt;</b>	Defines bold text
<b>&lt;big&gt;</b>	Defines big text
<b>&lt;em&gt;</b>	Defines emphasized text
<b>&lt;i&gt;</b>	Defines italic text
<b>&lt;small&gt;</b>	Defines small text
<b>&lt;strong&gt;</b>	Defines strong text
<b>&lt;sub&gt;</b>	Defines subscripted text
<b>&lt;sup&gt;</b>	Defines superscripted text
<b>&lt;ins&gt;</b>	Defines inserted text
<b>&lt;del&gt;</b>	Defines deleted text
<b>&lt;tt&gt;</b>	Defines teletype text
<b>&lt;u&gt;</b>	Defines underline text
<b>&lt;strike&gt;</b>	Defines strike text

# Text Formatting Code

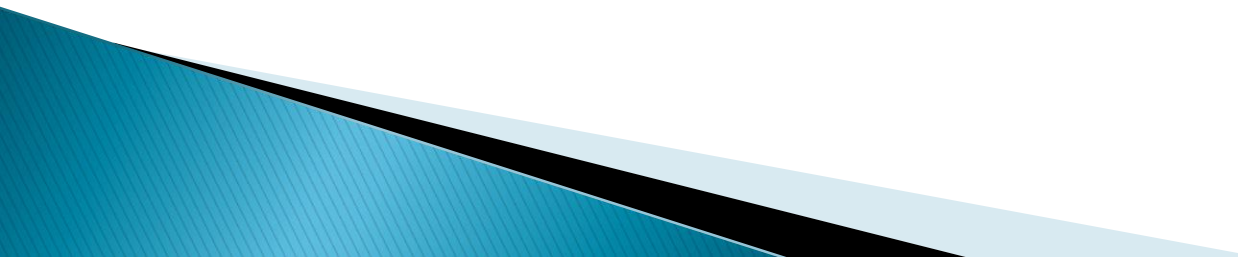
```
<html>
<head></head>
<body>
<b>This text is Bold</b>
<br><em>This text is Emphasized</em>
<br><i>This text is Italic</i>
<br><small>This text is Small</small>
<br>This is<sub> Subscript</sub> and
<sup>Superscript</sup>
<br><strong>This text is Strong</strong>
<br><big>This text is Big</big>
<br>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

# Result of Text Formatting Code





# Font Tag

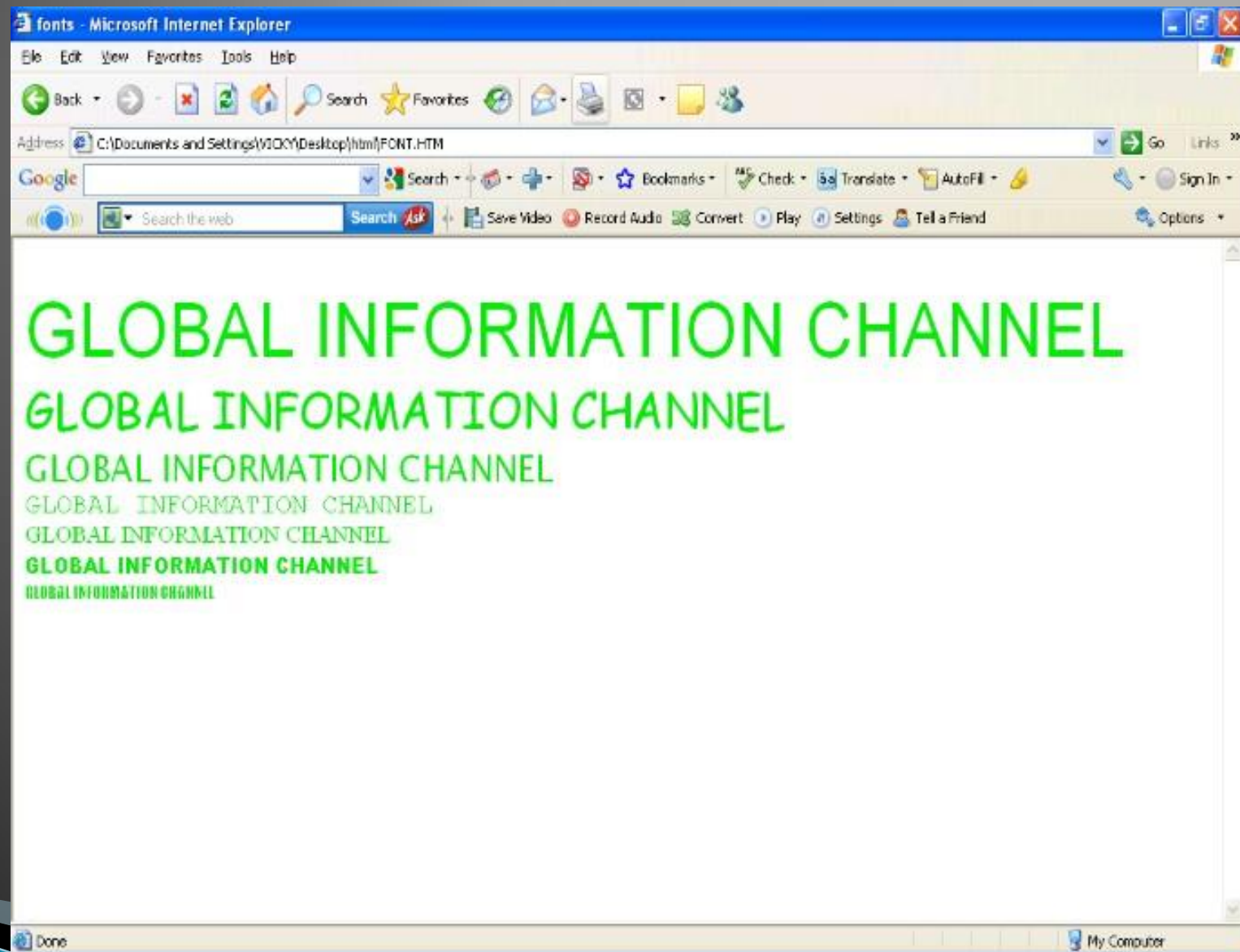
- This element is used to format the **size**, **typeface** and **color** of the enclosed text.
  - The commonly used fonts for web pages are Arial, Comic Sans MS , Lucida Sans Unicode, Arial Black, Courier New, Times New Roman, Arial Narrow, Impact, Verdana.
  - The size attribute in font tag takes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



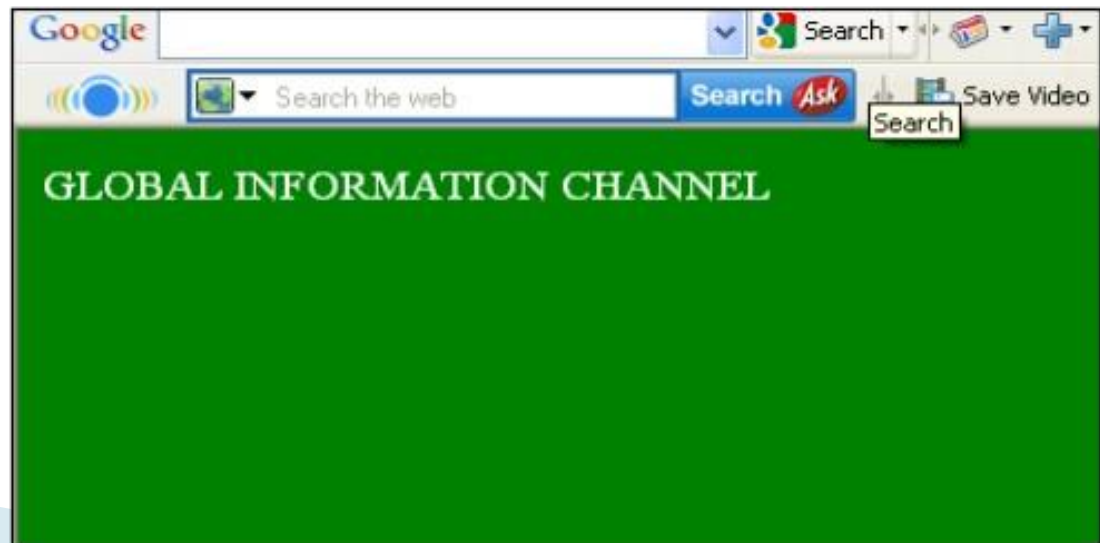
# Background & Text Color Tag

- 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

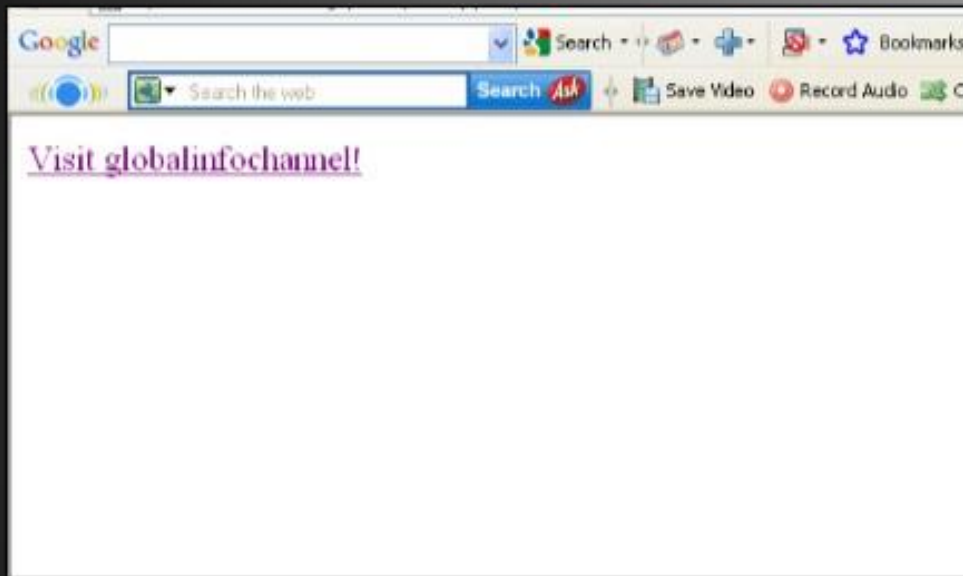
- A hyperlink is a reference (an address) to a resource on the web.
- Hyperlinks can point to any resource on the web: an HTML page, an image, a sound file, a movie, etc.
- The HTML anchor element `<a>`, is used to define both hyperlinks and anchors.

`<a href="url">Link text</a>`

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

`<a href="http://www.globalinfochannel/">Visit globalinfochannel!</a>`

# 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 an empty tag.

```
<IMG SRC ="url">
```

```
<IMG SRC="picture.gif">
```

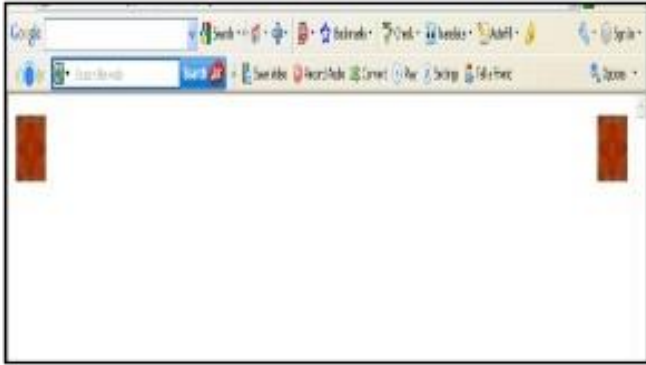
```
<IMG SRC="picture.gif" HEIGHT="30"  
WIDTH="50">
```

# 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> </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
```

```
 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>
```

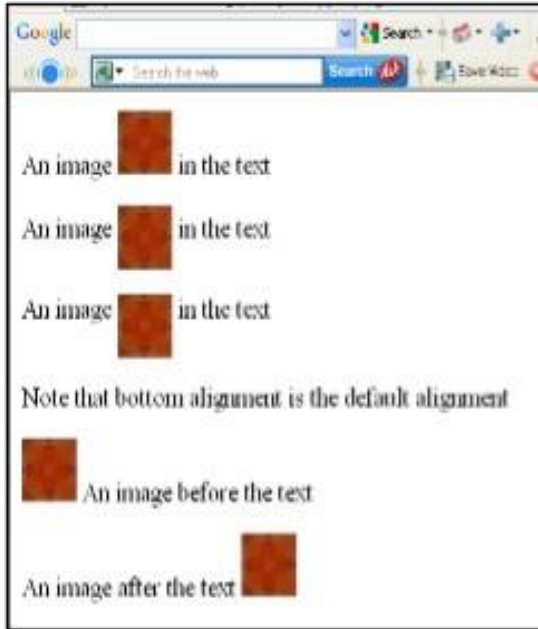
```
<p><img src = "file:///C:/WINDOWS/Zapotec.bmp"  
width="48" height="48">
```

```
An image before the text</p>
```

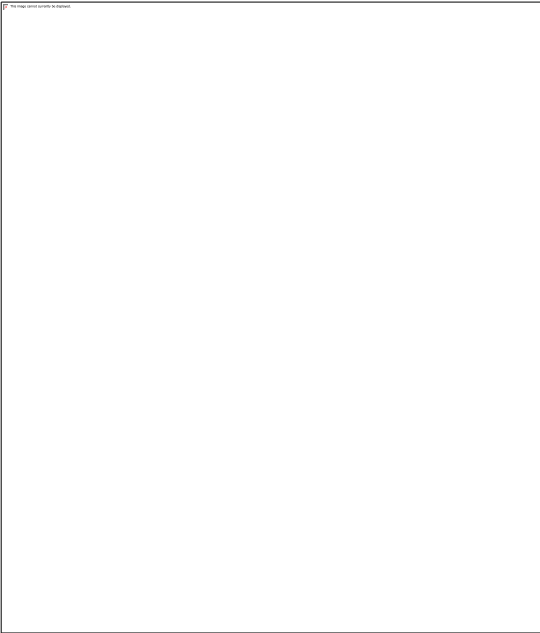
```
<p>An image after the text
```

```
<img src = "file:///C:/WINDOWS/Zapotec.bmp"  
width="48" height="48"> </p>
```

```
</body></html>
```



# Code & Result of the Image



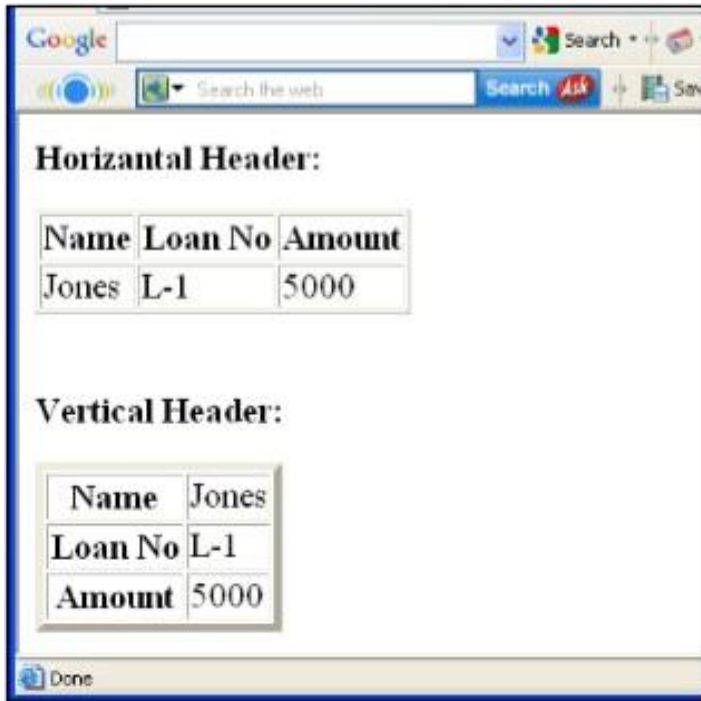
- ▶ `<html><body>`
- ▶ `<p>`  
`</p>`
- ▶ `<p></p>`
- ▶ `<p></p>`
- ▶ `<p>&lt;table&gt;</b>       | used to create table  |
| <b>&lt;tr&gt;</b>          | table is divided into rows                                      |
| <b>&lt;td&gt;</b>          | each row is divided into data cells                             |
| <b>&lt;th&gt;</b>          | Headings in a table   |
| <b>&lt;Caption&gt;</b>     | caption to the table  |
| <b>&lt;colgroup&gt;</b>    | Defines groups of table columns                                 |
| <b>&lt;col&gt;</b>         | Defines the attribute values for one or more columns in a table |
| <b>&lt;thead&gt;</b>       | Defines a table head  |
| <b>&lt;tbody&gt;</b>       | Defines a table body  |
| <b>&lt;tfoot&gt;</b>       | Defines a table footer  |
| <b>&lt;Cellspacing&gt;</b> | amount of space between table cells.                            |
| <b>&lt;Cellpadding&gt;</b> | space around the edges of each cell                             |
| <b>&lt;Colspan&gt;</b>     | No of column working with will span                             |
| <b>&lt;rowspan&gt;</b>     | No of rows working with will span                               |
| <b>&lt;Border&gt;</b>      | 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>
```

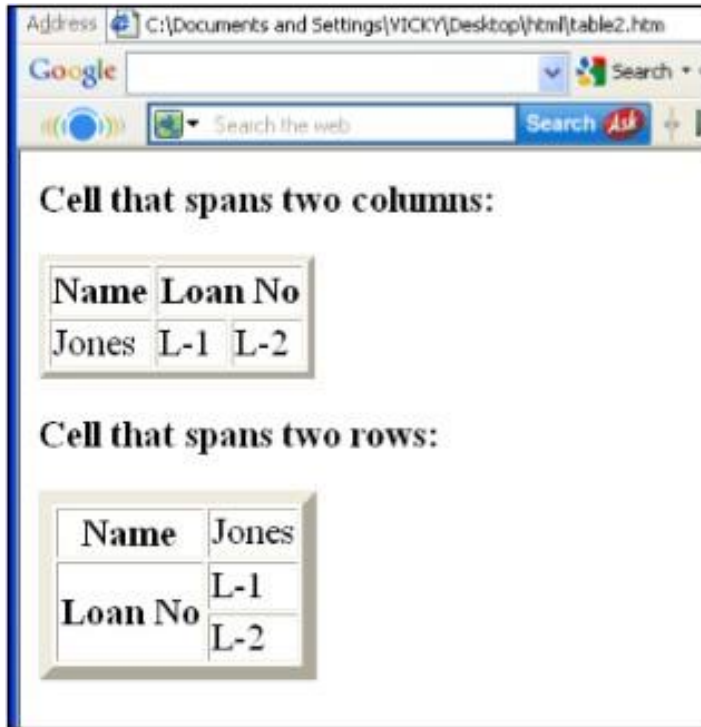
# Header



```
<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>
```

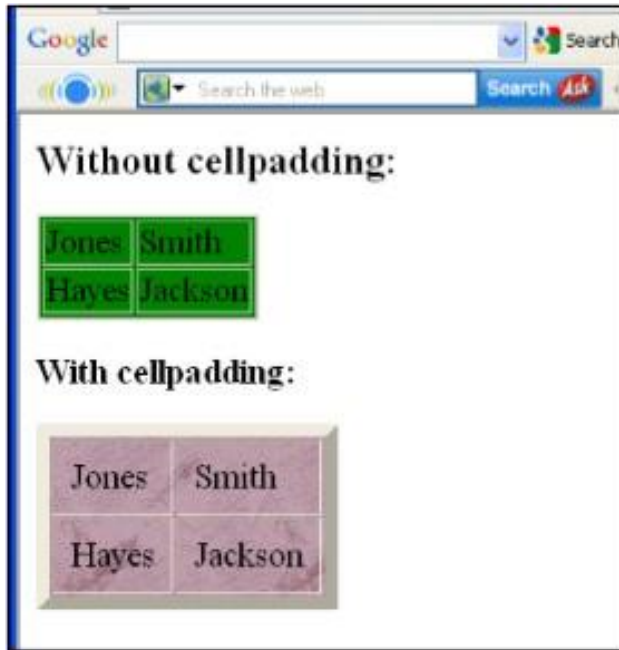
# Table Code with Caption & ColSpacing



```
<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 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>
```