https://shorturl.at/kAHNV

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Basics of Web**

**HTML**

**Intro**

**Features**

**Disadvantages**

**History of HTML**

**Tags**

**Paired**

**Non-Paired**

**Structure of HTML**

**Sections**

**Head**

**Body**

**Tags in Head Section**

**Body section**

**Color codes entities headings p br hr**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

What is web ?

- it is a collection of e-resources connected electronically

- Father if web is Tim Berners Lee.

What is W3C ?

- World wide web consortium.

- It is an organization to maintain web standards.

- It is founded by Tim Berners Lee.

- 1st October 1994 at MIT LCS (Massachusetts Institute

of Technology Laboratory of Computer Science).

What is InterNet ?

- International Network

- Father of internet is Dr Vint Cerf

HTML

- It stands for Hyper Text Markup Language.

- It is a standard markup language used to create web pages.

Features of HTML ?

- It is highly flexible and simple.

- HTML is supported on almost every web browser.

- HTML is user friendly.

Disadvantages of HTML

- It can create only static and plain web pages.

- We need to write a lot of code for make a simple page.

- Security features of HTML are not good.

History if HTML

- 1989 GML Generalised Markup Language

- 1991 SGML Standard GML

- 1993 HTML

- 2008 HTML 5

- 2016 HTML 5.1

HTML is completely enclosed in tags

What is tag?

- Text placed between '<' and '>' is called as a tag

Eg <html>

<body>

Tags are classified into two types

1. Paired tags

2. Non-Paired tags

1. Paired tags

- The tags that have both opening and closing

tags are called as paired tags

Eg

<html>

...

...

...

</html>

<body>

...

...

...

</body>

Note:- The closing tags start with '/'

2. Non-Paired tags

- The tags that have only opening tag but no

closing tag are called as non-paired tags

- These are also called as

i) Singular tags

ii)Self closed tags

iii)Empty tags

iv)Forcefully closed tags

...

...

Eg <br> or <br/> Break tag (line break)

<hr> or <hr/> Horizontal rule (Horizontal line)

<img> or <img/> image tag

Structure of HTML

<html>

<head>

<title>...</title>

</head>

<body>

...

...

</body>

</html>

Note:- HTML is case insensitive

means A and a are same

Comment:-

- Comments provide additional information about that code.

- Comments are not displayed on web page

- <!-- This is comment -->

Working with HTML

- Open any text editor for eg Notepad, Notepad++, sublime text, etc

- Save file with any name and extension '.htm' or '.html'

Eg index.html

- Run above file in any web browser Eg Internet Explorer,

MS edge, google chrome, MFF, Safari, Opera, etc

\*\*\*index.html\*\*\*

<html>

<head></head>

<body>

<!-- This is comment -->

Hello World

</body>

</html>

<!doctype html>

- is used to tell browser that < > are tags

Sections in HTML

1. Head section

2. Body section

1. Head section

- this section contains the root element as <head> tag.

- <head> is paired tag

- This tag contains the following tags.

i) <title> Document title

ii)<link/> Link to external document

iii)<meta/> Meta information

iv)<style> Used for style

v) <script> Used to provide script

i) <title>

<html>

<head>

<title> My first web page</title>

</head>

<body>

<!-- This is comment -->

Hello World

</body>

</html>

ii)<link/>

Attributes href, rel, type

Case study Displaying Favicon

Favicon - it is a graphical image associated with

title of web page

its size should be 16 x 16 px or 32 x 32 px

<!doctype html>

<html>

<head>

<title>This is my first web page</title>

<!--<link href = "./roundedp.png" type = "image/ico" rel = "icon">-->

<!--<link href = "data:image/jpeg;base64," type = "image/ico" rel = "icon">-->

<!--<link href = "./anim01.gif" type = "image/ico" rel = "icon">-->

<link href = "file:///C:\Users\Pranit\Pictures\desert.jpg" type = "image/ico" rel = "icon">

</head>

<body>

Hello World

<!--This is comment-->

</body>

</html>

Paths

i) Relative Path

ii)Absolute Path

Complete Path

full Path

<meta/>

- Metadata is data about data

- this tag provides metadata about html documents.

- Metadata is not displayed on web page but it can be

machine parsable (understandable)

- meta attributes are

i) meta keywords

ii)meta description

iii)meta author

iv)meta title

v) meta charset

vi)meta viewport

<!doctype html>

<html>

<head>

<meta keywords = ""/>

<meta description = ""/>

<meta auther = ""/>

<meta title = ""/>

<meta charset = ""/>

<meta viewport = ""/>

</head>

</html>

<style>

- it is used to apply styles to html documents

- in general internal CSS.

<!doctype html>

<html>

<HeaD>

<title>Styling eg </title>

<style>

p

{

color:red;

font-size : 50px;

font-family : 'aria','tahoma';

}

body

{

background-color:black;

}

h1

{

font-size : 120px;

font-family : Kunstler Script,Blackadder ITC,Lucida Calligraphy;

text-shadow : 0px 0px 5px red;

}

button{

background-color : orange;

color:green;

padding : 5px;

border-radius : 10px 0px;

}

</style>

</head>

<body>

<p> Welcome to styling </p>

<h1>Pranit</h1>

<button>Click ME</button>

</body>

</html>

<script>

- it is a paired tag

- it is used to apply script to html page.

- attributes (1) type, language

- attributes (2) src

\*\*\*.html\*\*\*

<!doctype html>

<html>

<head>

<title> Scripting </title>

<script type = "text/javascript" language = "javascript">

function myAlert(){

alert("Button Clicked")

}

</script>

<script src = "./script.js"></script>

</head>

<body>

<h1> This is script example </h1>

<button onclick = "myAlert()" >Click me</button>

<br/>

<button onclick = "logout()">Logout</button>

</body>

</html>

\*\*\*.js\*\*\*

function logout(){

alert("Logout")

}

Task

Create two different web pages

- For hospital

- 3\* Party hall

i) Provide a banner

ii)Provide description

iii)Provide favicon

iv) Provide button/s

v) Use colorful button

vi) Change button font

Body section:-

- it contains <body> tag as root element.

- this section contains contents of html document,

such as text, images, hyperlinks, special entities,

list, forms, tables, etc.

- it is paired tag

Attributes Parameters

background image path

bgcolor color name / code

text color name / code

Color codes

- html color codes are defined in 24bit RGB values

- these values are represented in hexadecimal form

- values start with #

- 0 is the lowest value

- F is the highest value

Eg R G B

#FF FF FF White

#00 00 00 Black

#FF 00 00 Red

#00 FF 00 Green

#00 00 FF Blue

<!doctype html>

<html>

<head>

<title>Body Section Example</title>

</head>

<!--<body text = "whiTe" background = "https://img.freepik.com/free-photo/empty-dark-concrete-wall-room-studio-background-floor-perspective-with-blue-soft-light-displays\_1258-108916.jpg?size=626&ext=jpg">-->

<body bgcolor = #110000>

Good Afternoon

</body>

</html>

HTML 5 Special characters (Entities)

- These entities can be typed as either

numbered entity or named entity.

- All entities begin with '&' and end with ';'

- Eg &copy; &reg; &trade;

&#169; &#174; &#8482;

refer http://www.columbia.edu/kermit/ucs2.html

&copy; &reg; &trade;

<br><br>

&#169; &#174; &#8482;

Current temparature is 29&#176;C

1. 2 square

2. under root of -1 => i

3. Blood oxygen 98 percent plus or minus 2

4. 10 to the base 2 is equal to 1010

1. 2 square 2&#178;<br>

2. under root of -1 => i &#8730;-1 => i<br>

3. Blood oxygen 98 percent plus or minus 2 90% &#177;2<br>

4. 10 to the base 2 is equal to 1010 10 &#8322; &#61; 1010<br>

HTML Headings

- in HTML there are six heading tags

- all heading tags are paired tags

Attributes Parameters

align left, center, right

<!doctype html>

<html>

<head>

<title>Headings Eg</title>

</head>

<body>

<h1 align = "left">This is Heading 1</h1>

<h2 align = "center">This is Heading 2</h2>

<h3 align = right>This is Heading 3</h3>

<h4 align = left>This is Heading 4</h4>

<h5 align = right>This is Heading 5</h5>

<h6 align = center>This is Heading 6</h6>

<h7>This is Heading 7</h7>

<h8>This is Heading 8</h8>

<h9>This is Heading 9</h9>

</body>

</html>

HTML paragraph(<p> tag)

- it is used to divide text into different paragraphs

- it is a paired tag

Attributes Parameters

align left, center, right, justify

<!doctype html>

<html>

<head>

<title>Paragraph Eg</title>

</head>

<body>

<p align = "left">Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc,</p>

<p align = "right">Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc,</p>

<p align = "center">Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc,</p>

<p align = "justify">Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Nullam dictum felis eu pede mollis pretium. Integer tincidunt. Cras dapibus. Vivamus elementum semper nisi. Aenean vulputate eleifend tellus. Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc,</p>

</body>

</html>

HTML line breaks(<br/> tag)

- br stands for breaks

- it is used to break a line and shift the following

text to next line

Non-breaking space(&nbsp;)

- It is used to insert more than one spaces

- It is a special character entity

Q -> find numberd entity for &nbsp;

HTML Horizontal rule(<hr/> tag)

- this tag is used to draw a line across the web page.

Attributes Parameters

color color name / code

size px

width % / px

align left, center, right

noshade noshade

<!doctype html>

<html>

<head></head>

<body>

<h1>Welcome to Web Development</h1>

<hr>

<h2>We can develop static and dynamic web pages</h2>

<hr>

<br>

<br>

<hr size = 5px>

<hr size = 20px>

<hr size = 20px width = 500px align = left>

<hr size = 20px width = 50% align = left>

<hr size = 20px color = red>

<hr size = 20px color = pink>

<hr size = 20px color = wine>

<hr size = 20px color = green>

<hr size = 20px color = blue>

<hr size = 20px color = gray>

<hr size = 20px noshade = noshade >

</body>

</html>

================================================================

================================================================