# HTML CSS & JAVA SCRIPT CLASS NOTES

BY

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# HTML: #

INeb :- Collection of e-papers father of web - Tim Berners Lee

Inleb + Nelwork = Internet

Resource H/W + S/W

father of internet - Vint Cerf

Email :- Father is Sabeer Bhatia

SMTP - Simple mail teansport protocal MIME - Mullipurpose internet mail entantion FTP - File transfer program TELNET - Telecommunication network.

Introduction to web environment

Neb:- Collection of electronic pages or e-pages is called web.

father of web is Tim Berners Lee.

Nelwork: - Collection of hardwore and softwore resources.

Internet :- International network

- father of Internet is Vint Cerf

MIC :- moted with web consorium (portnership)

It was founded in 1984 by Tim berners Lee.

It has four hundred plus members the following or popular

IBM, Microsoft, AOL, Apple, Adobe, Micromedia etc.

Emaît :- Electronic mail service

It is an inexpensive way to communicate with other internet users around world. It is working bosed on the following two

11 SMTP: - Simple mail transfer protocol

2] MIME: - Mulbipurpose internet mail extension

TELNET-

Telecommunications network or telephone new It allows a user to log into a remote computer through a local system

FTP -

File transfer program later changed as file trunsfer protocol. It allows a user to transfer every kind of fight that can be stored from one system to another

HTTP :-

Hypertent teansfer protocal de teansfer html document in the world wide web

Meb Browser 8-

It is client side software, it takes request from client to server. It brings response from server to client Popular web Bronsers

In web environment the following list of web brosser frequently used

Google erome (2008)

Internet emplorer (1994) Opera (1994) (2005)

Define html.

It is specially designed tent for web browser in english language. It has a following list of features

1] It is not case sensitive

2) It is simple english language we can create statistic web pages.

4] It is global languages

5] Browsers mother language

6] Simple and error free language

HTML Versions history :
As per wsc standard there are following list of versions

- 1, html 1.0 (1994)
- 2. html 2.0 (1995)
- 3. html 3.0 (1997)
- 4. html 4.0 (1999)
- 5. html 5.0 (2008)
- 6. html 5.1 (2014) etc.

Define Tag :- It is popularly known as element the tent placed between left angular brace (<) of Eight angular brace (>) is called as tag. syntan < 1--1-->1 > 1

- Types of tags:

  Tags are classified into the following two
- (1) Paired Tags(2) Non-paired Tags
- 1. Paired Tags &The tag that have both opening and closing tags are called as paired tags.

Example :- < html> ---- </html> < body> ---- </body>

2. Non paired tags:
The tag that have only opening no closing

(br)

ample 1% you to create a web page.
To create web page we should follow following list of steps.

Step 1 :- Launeh any tent editor

Step 2 3- Enter required HTML source code

< html>

< head>

< title>

My First Webpage

</title>

< 1 heads

< body>

Welcome to web world...

< Ibody>

/ html>

Step 3 :- Save with html entension

Step 4 ?- Right click on the saved file, open with any layer major web browser

Step 5 :- If any update required on the page, open with notepad format, do required changes and save it.

Step 6 %- Go to web page, Refresh it

In the above example every we page contain
the following four certical elements.

1] < html>

2] < head>\_

3] <title>

4] (body)

HTML Basic elements :-

17 <br > tag

br stands for break. It is use to break a line. Shift to nent line It is a non-paised tog br

Syntan :- (br)

Example 3-

< html>

< head>

< title>

be tag

</title>

</head)

< body)

melcome to HTML ... < b2>

Welcome to HTML ...

< 1 body>

< 1 html>

2] & nbsp

Non-breaking space it is used to add were spaces between characters and words.

It is an entity or special character.

Syntax :- &nbsp

```
1 nbsp = 1 space
              Enponple:-
          1 html>
           Lhead)
          Ltitle>
             nbsp character
            </title>
             </head>
             < body>
                  Welcome
                  to & nbsp & nbsp & nbsp & nbsp ATML
               </body>
                 tml>
                                              Welcome to
                                                                                                                                    HTML
            Morking with presentational tag

This are popularly known as formated tags
the following tags frequently we are using
                                                                                                       <br/>

            bold
                                                                                                   LStrong) ---- </strong)
                                                                                                       _<!>> ---- </!>
                                                                                                           Lem>
                                                                                                                                                                          ---- </em>
                                                                                                              (del) ---- (/del)
 Superscript
                                                                                                                                                                      --- </sub>
Subscript
```

Kb (oekquote) ---- < / blockquote>

blockquote

```
< small>
   Small
  teletype
                   (Center) ---- (Icenter)
  <center>
example :-
 < html>
 < head)
 <title>
 Formated Tags
 < Ititle>
 < /head)
 < body)
 (b) It is in bold formate <16> (b) (br)
 < strong > It is also in Bold formate </ Strong > (br)
 Li> It is in Italie format < 11> Lbr>
 (em) it is also in italics format (1em) br)
 (s) it is removed contenis from page (15) (br)
 < Strike ) it is removed contents < strike > < be>
 (del) it is removed contents (Idel) (br)
 <u>> it is removed in underline format </u> <br>
 it is the power of (100) < sup> 2 < 1sup> < br> it is the
  Base of (100) (sub) 2</sub> (br)
 < blockquote > it is Always special ... < 1 blockquote > (br)
 < 8 mall > small font < 1 small > (br)
 (big) big font (1big) (br
 Ltt> it is in teletyped format <1tt> (be)
 <9> it is in Quotes <19>(br)
 (center) Pagecenter (Icenter) (br)
     < 1 body>
     (/html)
```

## \* Attributes and Parameters

KTML attributes these one popularly known as properties, these properties can satisfied the following list of Statements.

- 1] Attributes au always specified en the start tag 2] Attributes values or enclose in a single or double codes.
- 31 Attributes ore special feature of togs 41 Each & every tag having its own attributes etc.

#### farameters :-

These ore the values assigned to attributes

/ tag attribute = "parameter"> Example < body bg color = "pink"> /html> (hody) It is the body section ...!! < head) ( / body) Ltitle> Body tag </html) (Ititles) 4 /head)

Morking with body tag :-

It is a major element it contains tent, hyperlink, special characters, tables, frames, forms etc It is a paired tag.

Lody > ---- < 1 body > ----

Body togs attributes and Porameters

Attributes

Porameters

bgcolor background

color name / hena decimal no image path color hame / hera decimal no.

Example &

< html>

< head>

Ltitle>

Body tag with attaibutes ---!!!

< 1 title >

< / heads

< body bgcolor Les body bycolor = "Lightblue" text = "red">
it is the body selection...!!

< /body>

< 1 html>

```
Rnample on

< html>
```

```
< html>
< head)

Litte;

Body tag with attributes --!!

Little;

Linead;

Loody background = "html5.phg";

It is the body section --!!

Libody;

Libod
```

#### Example :~

Example &

L / html >

L head >

L title >

Body tag with attributes --!!

L title >

L head >

L head >

L head >

L head >

L body background = "file: /// C: \ Users \ Subbaraj \

Dictures \ fish 1. gif ">

L body >

L html >

Paragraph tag.

It is used to divide into different poragraph It is paired tog.

Syntax : <P> ---- <1P7

Attributes

Parameters

align

left, right, center justify

```
<html>
<html>
<head>
<title>
poragraph tag
</ititle>
</head>

<html sis a ----- (write any poragraph) < IP>
<html sis a ----- < IP)
</pre>

<html sis a ----- < IP)
</pre>
<hr/>
<html sis a ----- < IP)
</pre>
```

#### Example or

Lhead>
Lhead>
Litte>

poragraph tag with Attributes

Little>
Litead>
Linead>

Lody>

Left"> some tent < IP>

Left align = "center"> some tent < IP>

Left > some tent < IP>

L

\* Font tag :~

It is used to display Jornatted tog it is paired tog

< Font > \_\_\_ < 1 font >

Attributes

Porameters.

Color sixe face any color name or hexadecimal 1 to 7 orial, tahoma, --- etc.

Example &

\html \
 \html \
 \html \
 \text{title}

font tog with Attributes

< \little \
 \little \

## \* Heading in html &

# There are sin heading all are paired tag

<. h2>	<1 hz)
< h2>	< 1h2>
< h3)	< /h3>
(h4)	< 1h4)
人 hs>	< 1h5>
<pre></pre>	<1 hb>

# Example &

```
<html>
<html>
<head>
<hithe>
Headings in HTML

title>
title>
thead>
<hi>Davascript </hi>
<hi>Tavascript </hi>
<hi>Tav
```

```
Atterbutes.
```

#### Pasameters

align

Left, right, center

Enample on

< html;
< head;
< title;
fleadings with Attributes</pre>

It is used to draw a line cures the web page. It is non-paired tag.

< he>

\_color any color name/ hena decimal

sixe Pin

width % or pin

align \_ left, right, center

noshade noshade.

when we put no shade then color must be removed.

 $\langle body \rangle$   $\langle hr color = "blue" size = "2px" width = "100px"$   $align = "left" \rangle$   $\langle h_1 \rangle$  javascript  $\langle lh_1 \rangle$   $\langle hr color = "red" size = "upx" width = "200px" \rangle$   $\langle h_2 \rangle$  javascript  $\langle lh_2 \rangle$   $\langle hr color = "green" size = "6px"$   $width = "300px" align = "right" \rangle$   $\langle h_3 \rangle$  javascript  $\langle lh_3 \rangle$ .

The default width of the horizontal rule is

Default alignment of the HR. is center

noshade attribute will be applied only when we are not specifying the color attribute.

\* Morquee tag :-

Using this tag we can create a scrotling tent or scrotling image from left to right, right to left, top to bottom and bottom to top.

It is a paired tag.

Syntan: < marquee> ----</marquee>

Example :-.

( html)

< head)

(title)

Marquee tag with Attributes.

< Ititle>

< I head).

L body)

< marquee) Text scrolling </morquee)

</body>

< / html>

nandonin	The state of the s	THE PROPERTY OF THE COMMENT AND THE PROPERTY OF THE PROPERTY O	
<u>*</u>	Attributes and	d Porameters :-	The Annihological Annihologica
	Attributes	en eng	
Per site	behavior	"SUde"	Stort and stop as soon os tent touches the
,	The same of the second	and the second s	margin
		" scroll"	Stort completely and off one side (Default)
	· · · · · ·	"alternate".	Tent bounce as soon as touch both sidemorgin
b	g color	Color Cocle	Specified the color as background
. Ø	lirection	" Left" " night" " up" " down"	Lift to Right Right to Left Bottom to Top Top to Bottom
2/	width	"sîze-px"	Specifies width in marquee
h	ight	"size-pn"	Specifies hight in morquee
	0015	"number"	Loop continues in Limited Limes

"number"

Scrollamount

specifies speed to scrollon the text

```
Example :~
  < html>
  < head)
  L title)
  Morquee tag with Attributes
  < /title>
  < Ihead)
  < body>
   < marquee behavior = " scroll"> SCROLL < / marquee>
   < marquee behavior = "Stide" > SLIDE </morquee>
   < marquee behavior = "alternate"> ALTERNATE </ morquee)
   < /body>
   < 1 html>
Example &
    < html)
   . < head)
     Ltitle>
    morquee tag with more Attributes
    < /title>
    21 heads
    L body)
     < marquec behavior = "scrall" bgcolor = "orange")
      SCROLL ( marquee)
     < marquee behaviour = "Slide") SLIDE </ marquee)
     < marquee behaviour = "alternate" bgcolor = "Lightgreem"
       width = "150 px" height = "400 px" direction =
       "down > ALTERNATE < 1 marquee)
```

```
Example &
```

```
< html>
< head>
 <title>
Morquee tog with more Attributes
  < I title>
 </head)
   < body>
   < morquee behavior = " scroll" bg color = " orange"
   scrollamount = "1">
   SCROLL < 1 morquee >

    Marquee behavior = "slide" Loop = "5"

   Scrollamount = "25"> SLIDE < /morquee)
   < marquee behavior = " alternate" scrollamount
   = "50"> ALTERNATE
    < / morguee)
    < 1 body>
    </ html>
```

## Enample: Marquee tag with TS Events.

```
< html)
< head)
Ltitle)
Marquee tag with Is Events ...!!
< Ititles
< 1 head}
< body >
 K marquee behavior = "Scrott" bg cotor = " orange"
   Scrollamount = "/"> SCROLL < / morquee)

    Marquee behavior = "Slide" loop = "5"

  scrollamount = "25" on mouse down = " this . stop ()"
   onmouseup = " this . stort ()"> SLIDE < 1 morquee)
< morquee behavior = "alternate" scrollamount = "50"</p>
  on mouseover = " this stop ()" on mouse out =
_ "this, stort ()" > ALTERNATE < / morquee>
 < 1.60dy>
 < /html>
```

# \* Marquee tag with Is events...!

#### me can use also for the above enample.

- 1] on mousedown = "this. stop ()"
- 2] onmouseup = "this. stort()"
  - 3] on-mouse over = "this. stop()"
  - 4] on mouseout = "this stort ()"

# \* Pre tag :-

pre tag stands for pre fermated tent it displays unformated tent on the web page including spaces, line breaks, taps of enters, It is a paired tag

Example :-

\* < img > tag :-

It is used to insert images on the web page, it is a non-paired tag

Syntan a <img>

Attributes

Porameters.

scr border hight width align alt title image path

pix

pix or %

pix or %

left, night top, middle bottom

any text

any text

Example on

<body>
<img SEC "good morning gift" width = "200px"
height = "200px" alt = "sorry Img Not Enisted"

title = KSRaju" border = "2px">

</body.>

\* HTML Links ?~

Links are used to navigate easily from webpage to website etc.

In html links are classified into following two types

- 1] Internal Links
- 2] Enternal links.
- 1) Internal Links
  Linking within the page and within the website is called as internal linking
- 2 Enternal Links
  Linking to enternal files like other documents
  other website or other webpoges called enternal
  linking

To create links we use Anchor tog. It is a paired tag.

Syntax :- <a> ----</a>

#### Attributes

#### Parameters

href name torget url (uniform resource locat
any name
-blank, -porent,
anyname

Text links :-

I tent link allows programmer to create tent that acts as a link, so that when it is clicked on by a user, it will transfer them to another web page

Example 0 %

< html)

< head>

Ltitle)

Tent Anchors

</title>

< Ihead>

Lbody)

La hrep = "http://www.nareshit.com")

Novesh IT < 1a>

< a href = "http://www.nazeshit.in">

NozeshIN </a>

\( \alpha \) http:// www. Seshajobs.com" \( \gamma \) ITJobs

Uboely)
< Intml)

#### off: Nareshit / NareshIN / ITJobs

Jorget Attribute :-This attribute is used to display a page or website in a specific location.

Ancher tog with Torget Attribute.

< html>

< head>

Ltitle>

Anchor tog with torget Attribute

</title>

LI head)

< body>

<a href = "http://www.noreshit.com"> NoreshIT </a>

<a href="http://www.nareshit.in"
"torget="\_blank) Noresh IN </a>

<a. href="http://www.seshayobs.com" target="-porent"> IT Jobs </a>

< a href = "http://www.nazeshservices.com" torget = "> "> Talent

Jest < 1a>

L body)

< html>

A picture link allows the programer to create a picture that act as a link so that when it is click on by user it is transfer them to another page or site.

example in Anchor tog with Image

< html) (head)

∠title>

Anchar Jag with Images

< 1 title>

1 heads

L body>

< a href = " http:// www. w3c. org">.

Ling src = " html : png" width = 100px height:

· 100px > < 1a>

La href = "http: // www. whatwg.org"> L'ing src = "html 5. png" width = 100 pre

height = 100 pre>

( 1 body)

< html>

These links allows programmer de connect to client system resources

200al Resource example

 $\angle 1 html >$ 

Lhtml>
Lhead>
Ltitle>
Anchar Tag with LocalResousces...

Little>
Little>
Linead>
Local>
Local head>
Local Minks \ images \ phunny3.jpg ">
Local hinks \ images \ phunny3.jpg ">
Local hinks \ images \ images \ images \ images \ materials \ images \ Local hinks \ la>

Morking with html Tables &

Tables are used to represent our data in a tabular format. The best way to split a page, with the help of tables. It is a paired tag.

Syntax 3~ < table} < 1 table)

example en <table)

< 1 table)

Table zows in

Hosizontal links represent as rows to represent table rows we use for tr tag. It is a paired tog.

</te>

Example:-

(tr)

</ta>

< 1 table>

Cells :~

Each row consist of a number of cells.

Each cell defined by a tag. the tag looks like (td)

The storting tag is (td) and the closing tag
is (1td) The intersection of zeros and

Columns one called as cells. To represent table

data we use to tag to tag is a paired tag.

Syntan: - /td> ----

Table Headings.

To represent table headings we are using the tag

Syntan :~

(th) ----

Example in

Lbody) Lable border = 1 px)

< t \>

(th) StdNO(1th)

Stcl Name

( 1tz)

くな〉

(td) 1001 ( /td)

(td) Kumar

</te>

<te>

2td>1002

Ltd> Scott < Itd>

</ta>

< Itable>

</body>

# Table tag Attributes and Parameters

-Attributes border border color

bycolor

background
height
width
align
valign
valign
rules
cellspacing
cellpadding
zowspan
colspan

Parameters

pixels
any edor / color code
(hexa)
any color / color code

(hena)

image path

pixels or %

pixels or %

left, right, center

top, middle, bottom

rews, cors, all, none

pixels

pixels

number

number

Table tag with more Attribute.

<br/>
\ boely \

> \$tclNo

<br/>
\ th> \$tdName < 1 th>

<br/>
\ 1 tr>
\ 1 tr>
\ 1 tr>

#### Table\_attributes at cell level

```
( body >
< tE>
> StdNo
 Std Name < 1 th>
< 1t2>
(te)
1001
Ltd. bgcolor = "lightgreen" background
  = " chrome png" > kumar 
< 1 to>
 (tE)
(td) 1002 < 1td>
 < td bg color = "lightblue"
  background = " html5. png">
  scott < 1 td>
< 1 t2>
 < 1 table>
 < 1 body>
```

```
Table tog with width and height property.

< body>

> Std NO < 1th>

> Std Name < 1th>
```

1002

\_ LIbody>

< / tz>

#### Rules Attribute en

It support the following list of values

1. nows

2, cols

3. all

4. none

Std NO Std Name 1001 kumor 1002 scott

```
Loody >
Lable rules = "all" border = 1 px >
Lte >
Lth > Stano < 1th >
Lth > Stano < 1th >
Lth > Stano < 1th >
Lti >
Lti >
Lti >
Lti >
Lta > 1001 < 1td >
Lti + Lti
```

(1 body)

Cell spacing or

This attribute contrals the distance between cell

Cellpadding in It control the distance between text in the cell and the edge of the cell

Syntax: CEUPADDING = "X">

eig with spaceing and padding.

(body)

(table border = 1px cell spacing = 10px)

-cellpadding = 10px;

Std No

StdName

(te)

(td) 1001

Kumar < 1td>

</t2>

< t2)

(1002 < 11d)

(td) scott

< /te>

< 1-body)

< Itable) < I hodus

# Table tog with entities

Entities are special characters, these characters developed for special meaning. If you remove the tent within the cell, cell will be disappeare on the need page that time we should implement non breaking space for all browser compatibility.

```
L body>
< table border = | px >
> Std No >
(th) Std Name 
</ta>
< t2>
1001< 1td>
4 td> fnbsp 
< 1te>
<&>
1002 
(td) & nbsp 
</te>
StdNO | Std Name |
< 1 body)
                1002 | Scott . | .
```

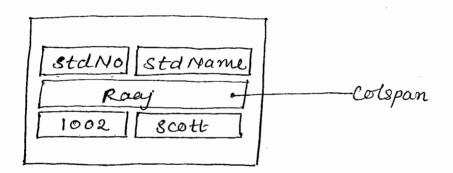
#### Cotspan and Rowspan

Using these attributes we can extend columns and zons across multiple other coloms and zons.

### 1. Column Span.

It extends cells on a horizontal row (leftf right)

Syntax & < TD COLSPAN = "X">



e.g :- Lbody >

<te>
> stdNo
>

> stdNo

> stdNo

>

> stdNo

>

> stdNo

>

>

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<t

Rowspan :~

It entends row on a vertical row up of down.

Syntax or < TD ROWSPAN = 'x'>

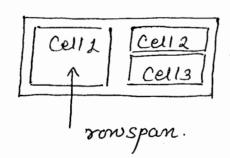


Table data alignment :

To align the data inside the table in the following two ways.

- 1. Horizontally. 2. Verbically
- (1) Horizontally :~

  The can align the tent horizontally in three way left (default), center and eight
- 2) Verbically on me can align the tent vertically in the following three ways.

  - 2. middle
  - 3. bottom.

Working With html frames in

frames are used to embed mulliple html files in a single browser window.

< frameset > 'tag %~

Using this tag we can clivided the webpage as a multiple frames. In each frame we can display another web site. frameset tag' is paired tag.

Syntax in

< frameset > ----

<1 frameset>

Attributes

Porameters

rows

Cols

border

bordereolor

pix, %

pix, %

pix

any cotor

name/ Kenadeeimas.

< frame) tag :~

This tag is used to called enternal webpages. It contains sre property to specify the path of enternal webpage.

Using frames we can place and view multiple files in a single window.

It is a non paired tag.

byntan : < frame)

Attributes Szc mame scrolling

Porameters.

File path, External resource any name
yes, no, default

example or

/ frameset rows = "50%, 50%"

/ frame src = "http://www.nareshit.com"

/ frame src = "http://www.nareshit.in"

/ frameset

L frameset rows = "50%, 50%" cols = "50%, 50%"

L frame sic = "http:// www. nareshit . com")

L frame sic = "http:// www. nareshit . in")

Grame sic = "http:// www. nareshit . in")

Grame sic = "http:// www. narestrvices . com")

Grame sic = "http:// www. seshafobs . com")

Grameset.

#### Frame scroll bor on

scrollbor attribute support the following porameters.

Nes - Turns the scroll bor ON No - Turns the scroll bor off Auto - Meb page detect if needed.

Scrolling Attribute ?~

/ frameset rows = "50%, 50%"

/ frame src = "http://www.nareshit.com"

scrolling = "yes"

/ frame src = "http://www.noreshit.in"

scrolling = "No"

/ frameset)

frame error in

The mejority of browser not supporting frames that time we should keep a mag to the endwarr while frames fails to Lowser it is a paired tag

Syntax or < noframes) ..... < noframes)

```
Example on

{ frames

< fram

< fram

< fram

< fram
```

Example on Frames doesn't supports body section.

< frame set rows = "50%, 50%")
< frame src = "http://www.nareshit.com")
< frame src = "http://www.nareshit.in")

Browser support only upper or lower port, never support both port

Frameborder on

This property support different frame borders with different sizes.

#### Example on

- L frameset rows = "50%, 50% "border = 20px bordercolor = "red")
- < frame szc = "http:// www. noreshit.com">
- < frame sre = "http:// www.noreshit.in")
- < / frameset)

Working with html forms on

forms or used to create dynamic website end user able to interact directly with application It is a paired tag

-byntax: ~ < form) ---- </ form)

Attributes :~

form support the following list of attributes

Attributes name method action Parameters

any name

get, post

vrl (uniform

resource locator)

form tags &r

Form support the following list of tag

controls.

Tag

Description

< form>

defines a form for user input

Linput)

Defines on input field data

< button)

Defines push button

< textorea >

Defines a text orea (a mulbiline text input box)

Label)

Defines a label to the description

< fieldset>

Defines a border to the input date

(legend)

Defines a caption name write into fieldset.

L select)

Defines a drop-down select list box.

< option>

Defines an option value in the drop down box

\* Types of form fields or

Form fields on classified into the following two types.

11 Input fields 2J Select fields

(1) Input fields in Form support the following list of ipp fields.

field name

Keyword

Syntan

tentbose

tent

L'input type = "text")

password box

possword

< input type = " password")

cheekbox

cheekbon

<!reput type=</pre>
'' cheekbose">

raelio button

radio

L'input type =

submit button

submit

L'input type =

reset button zeset L'input type = "reset")

text area tentarea L'entarea (tentarea)

Example in

User Name

Password

Password

< body>
< form)
L' Label > User Name: < 1 Label > < b2/>
< input type = 'tent'> < br/>
< label> possword: < 1 (abel > < br)
<pre>&lt; input type = ' password'&gt;    </pre>
< input type = ' submit'>
< 1 form> .
< 1 body

#### Atteibutes

#### Parameters

name
value
size
maxlength
zows
cols
readomly
disabled
cheeked
mulbiple

any name
any value

pinels

neimber

number

number

true, faise

disabled

cheeked

true faise.

### Example ? Jorn with more attributes

```
\ body \
( form)

\ (label > User Name : < / (label > < bi/ >

\ lnpat type = ' tent' name = " uname" value =

" Enter Name " size = "5 px" maxlength = "6"

readomly = "teue" > (br/ )

\ (label > possword: < / (label > < bi/ )

\ lnput type = ' possword' name = "pwd"

Nalue = "Enter possword" > < bi/ >

\ linput type = 'submit' name = "sn"

Nalue = "(ogin " disabled = "disabled")

\ ( / form )
```

\* Text orea tog attributes

Attributes

Value

Description

cols

"Number"

Define the specify number of choracter visible in one line of tentorea

rows

"Namber"

Define the specify number of lines Visible in tent orea

name

" message"

Specify unique name for the input element

Example on

< body >

(form)

L' textarea rons = "6" cols = "23" name = "torea"

id = " tore 1">

Some text ....!!

</tentorea>

< / form>

< 1 body>

Bootstrap is an open source

developed by the team

at Twitter. If is

combination of HTML, CUS,

-scro Cupl donor \* Checkboxes &~

Cheek the required option(s)...

☑ Cricket ☐ watch TV

example 8~

L body >

L h3> cheek the required option (s).

< form>

L'input type = "cheekbon" name = "cricket"

value = " clicket" cheeked = "cheeked"

disabled / > Cricket

L'input type = " cheekbon" name = " watch TV"

value = " watch "/> watch TV

< 1 select>

1160dy)

\* Radio Buttons

Select the Required Option

• Cricket

O watch TV

```
Loody >

Loody |

Loo
```

\* < fieldset > &

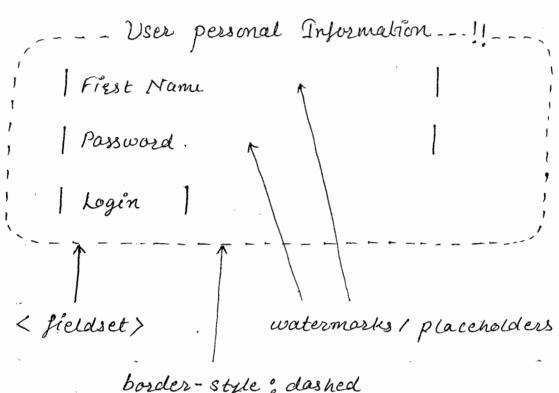
It defines a group of form elements as being logically related. The browser draws a box oround the set of fields to indicate that they are related. It is a paired tag.

Syntax on < fieldset > ---- < / fieldset >

```
Legend on
           It is used with < field set > to give
a tittle to each set of fields.
          It is a paired tag.
  Syntan % < legent >
                                </legend>
                                 Parameters
   Attributes
    align
                           right, center, left
             User Personal Information.
        First Name
        Lost Name
        Login
< body>
< form>
 < fieldset>
 K legend align = "center"> vser personal Information..!!
 < /legend>
 L'input type = 'tent' name = " uname" value
 = "firstName">
  < 1b2>
   < input type = 'text' name = "uname" value
     = "Last Name")
```

1 < be/>>

```
" value =
< input > type = ' submit' name =
 " Login's
< 1 fieldset>
```



border-style : dashed

```
< body>
< form>
< fieldset style = 'border : 2px doshed #FFOOFF;
   border - radius: 25px')
< legend align = "center" style = color: blue;
  background-color: yellow'> User personal Information..!! </ legend>
 L'input type = 'tent' name = 'uname" placeholder =
      ' first Name">
    < br/>>
    < input type = password' name = " uname"
     placeholder = " password")
```

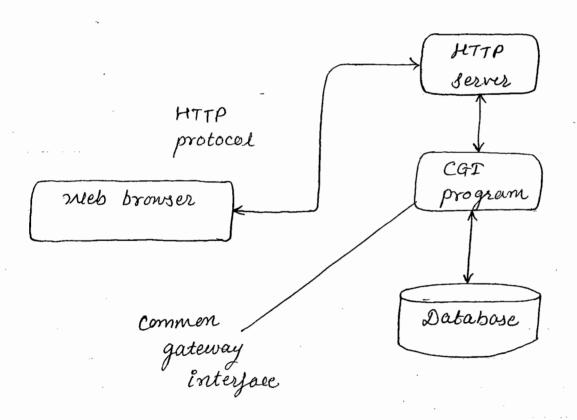
<br/>
<input type = ' submit' name = "sn" value =

" Login">

< ! fieldset>

< ! form>
< ! body>

\* Architecture of http.



#### Example (1)

```
Loody)

Loody torm action = "nit. html" method = "get" >

Linput type = 'tent' name = "user" >

Linput type = "password" name = "pass" >

Lordy

Linput type = "submitt" value = "sign In" >

Linput type = "submitt" value = "sign In" >

Lipomy
```

\* Get method satis the following list of statement.

```
1] GET Ecquest can be
```

2] GET réquest remain in the brewser history.

3] GET Eeguests can be bookmarked.

4] GET requests should never be used when dealing with sensitive data.

5] GET requests have length restrictions.

### \* Action Attribute in

This attribute is used to specify the URL of the Server page to which we want to send our form data.

Syntan on < form aebion = " ServerResource">

## \* Introduction to http.

It is designed to enable communication between clients and servers. It is TCP/IP bosed communication protocal, which is used to deliver virtually all files and other resources on the world wide web

\* http Request Methods or http supports the following two request. methods
11 GET

2] POST

(1) GET Method on

In this method we don't have security for our data and only limited data can be sent to the server page.

This is the default method of the form.

Syntax %-

< form action = "nit. htnl" method = "get">

Note :~

Get method corry raw data between clients
to server

\* Difference between get & post

#### GET

POST

1. Data is visible on URL address 1. Not visible post information

2. Unsecured

- 2. Highly secured.
- 3. Excellent performance
- 3. Good performance.
- 4. Transfer limited amount of data
- 4. Transfer huge amount of data.

5. Unable to upload file

5. me can upload files

\* http Status messages.

In web environment these ore several error messages frequently displayed, these messages ore http status messages

1XX -199 -> Information related messages

2XX - 299 -> successfull messages

3×x - 399 → Redirection messages

4XX-499 -> client side messages

5XX - 599 -> server side messages

\* Post Method on

In this method, we have security for our data and we can send bulk of data to the Serves page.

Syntax ?~ "nit htnu" method = "post"> < formaction =

Explain on

< body>

< form action = "nit, html" method = "post">
< input type = 'text' name = " vser">

< b2/>

< Input type = " possword" name = "poss">

< b2/>

= " submit " value = " sign ?n") < input type

< 1 form>

< 1 body>

Post method can satisfy the following list of points.

Post requests are never catched

Post requests do not remain in the browser history.

post reguests cannot be bookmorked.

Post requests have no restrictions on data length

### Example on

Looly>
Loi>
Li> Tavascript L/Li>
Li> Live Script L/Li>
Li> NBScript L/Li>
Li> NBScript L/Li>
Li> HTMLS L/Li>
Li> C883 L/Li>
Li> Bootstrap L/Li>
Li> Lol>
Libody>

Atterbutes type stout

Posameters
i, 1, a, A, 2
any number

 \* Morking With html List

In html list are classified into the following three types

1] Ordered list

2] Unordered list

3] Definition List

#### \* Ordered list

It is also called as numbered list. It is used to give unumbering to the list items. It is a paired tag.

Syntax or

<01>\_\_\_\_ </01>

To specify the list items we use Li tag. It is also a paired tog

Syntax 3
L li> ---

start attribute only applicable for numbers.

example (3): Lboely >

Lo1 start = "5" >

Li2 Tavascript < 1 Li3 >

Li3 VB ... < 1 Li3 >

Li3 VB ... < 1 Li3 >

Li3 CS33 < 1 Li3 >

Li3 CS33 < 1 Li3 >

Li3 CS33 < 1 Li3 >

Li4 > Li5 CS33 < 1 Li3 >

Li5 CS33 < 1 Li3 >

Li6 > Li6 > Li6 >

Li7 < Li7 < Li8 >

Li8 > Li9 < Li9 >

Li9 < Li9 >

Li9 < Li9 >

Li9 < Li9 >

Li9 < Li9 >

Li9 < Li9 >

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Li9 < Li9 >

It is also called as bulleted list. It is used to give bullets to the list items. It is a paired tag.

Syntan % < 111)

To specify the list îtems we use li tag. It is also a paired tag.

eog (1) < body> Luls くど〉 くルン くび〉 (li) (li) (li) < 1 body>

O/P 8~ Tavascript Livescript

· Bootstrap

Attributes

Parameters.

type

disc, circle, square.

example :~ with attribute.

Lody) Lul type = 'circle'> Lui>...

</body>

ofp :~ o Favascript

0 - - -

Defination List

It is also called as descriptive list It is used to give definitions to defination terms. It is a paired tag

To specify definition data, we use dd tag It is a paired tag.

Syntax %~

<dd> ---- 2/dd>

To specify definition term we use dt tag It is paixed tag.

syntax in

Laty ------ (1dt)

Lody>
Lody>
Loty
Loty
Sootstrap Lodty
Lody Sometent Lody
Lody HTML Lody
Lody Some text Lody
Lody Casa Lody
Lody Some text Lody
Lody>
Lody>
Lody>

\* HTML address tag :~

It is used for indicating an address the address renders in italic format.

It is a paired tag.

Syntax or

< address > ----- </address>

Example or

< body>

< address >

KSSUbbaRaj, < br)

Sr. Faculty Member , < bz >

Nosesh i Technologyes, (br)

Ameer pet, < br)

Hyderabad, (bE)

TELANGANA.

< /address>

< 1 body>

\* CODE in

It allows the user to specify code or a command that generates a different font to signify the code. It is a paixed tog.

Syntax &

L code> ---- < 1 code>

Lbody> LP> Normal tent. It is related default font

Lode>
HTML5 & New hypertext for mobile
Applications ..!!
L (code)
L (body)

\* <NOBR> 8~

It display a line combineously without any break. It is a paired tag.

< nobe> ---- Unobe>

Example on

< body>

Line Never End! Line never End.!

< Inobe>

< 1 body>

## \* HTML Meta Tag Reference on

Define meta tag s~

meta tags can be very useful for web developers with the help of meta elements we can deelare meta data,

These elements are classified into several types but the following on frequently used.

- 1. keywords 2. description.

# 1 Keywords 3~

These keywords are implemented inside the head seetion, these are very usefull for search engines.

Syntan in / meta name = ' keywords' content =

List of related keywords">

Example in

 metaname = "keywords" centent = "Live cricket sozes, cricket, .... cricket"/>

## 3 Description :~

It is used to declare the description of web-page, it is very useful for search-engine results.

Syntax 82

Example :~

'' check out live crieket scores, cricket
headlines"/>

\* html span tag in

It is used to apply inline styles to a specific tent.

It is used to display formated tent on the web page.

It is a paised tag.

Syntax on

L span) - - - < 1 span)

# HTML span tag Attributes

- 1. Style
- 2. class.
- e.g (1) < body)

  2 Span)

  Welcome to formated tent < br)

  Welcome to formated tent

  4 (Span)

  4 (body)
- e.g Q. Span tag with style attribute.

\* HTML Dir tag 8~

.< 1 body>

div stands for division block, it can held other html element by using div tag we can design the web as multiple divisions.

It is a paired tag.

Syntax :~ < div)

It supports the following list of attributes

1. align &

align attribute accepts value as left, zignt or center to align to the content.

2. Style in

It allows to provide the CSS inline styles div tag.

Z. id on

It allows to access the div element in scripting languages like javascript.

Class on It accepts the name ess class to apply the style defines in the CSS files.

## (1) example on

< body)

< div > DIV1 < Idiv)

< div > DIV2 < Idiv)

< div > DIV3 < Idiv)

< I body)
</pre>

%ρ %~ DÍV 1 DIV 2 DIV 3

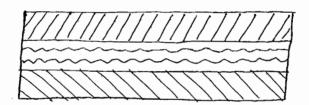
# 2) example 3~ using align attribute.

<body>
< div align = "left"> DIV 1 < Idiv>
< div align = "Center"> DIV 2 < Idiv>
< div align = "Eight"> DIV 3 < Idiv>
< div align = "Eight"> DIV 3 < Idiv>
< Ibody>

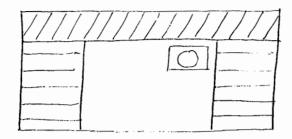
### 3 example on

```
< div align = "center">
< b> It is in Bold format <1b>
< b=1>
<i>> It is in Italics format <1i></i> <1div>
< div align = "right">
< b> It is in Bold format <1b>
< b=1>
< b=1>
< in Italics format <1b>
< b=1>
< box It is in Italics format <1i>< b=1>
< loiv)
< loiv)
< loiv)
< loiv)
< loody)</pre>
```

Example 4 %~



#### 3 Example on



```
< body>
L div Style = 1 background - color: orange; width:
 100%; height: 100px'>
< 1 div>
L div style = 'background - color: light-green;
 width: 150 px; height: 400 px; float: left?
< 1 div>
 L div style = 'background-color: light blue; width
355 px; height; 400 px; float: Left>
< marquee)
 < img src = " smiley 6 . jpg" width = 100px height
  = 100px>
 <1 morquee>
  < 1 div>
  L div style = 'background - color: Light-green:
   width; 150 px; height: 400 px; float; zight",
  < / div>
  < 1 body>
```

\* Working with table layouts &~

we, ean impliment inside the table header part menuport, footer port etc.

```
Jleader port

Menu Port

Main body

Nist 1

Port

Nist 2

List 3

List 4

Footer Port
```

Lost 2 < br/>

Loody >
Lable width = "500 px" border = "0")
Let >
Let Colspan = "2" style = "background-color:
# FFFF00; height: 30px;">
Header Port
Let >
Let

```
List 2 < b2/>
List 3 < 62/>
List 4
< 1 td>
Ltd style = "background-color: # FF9900; height
2,00 px; width: 380 px;">
main body part
 <1/2
 <tE>
             = "2" style = "background - color!
Ltd colspan
             color: # FFFFFF; ">
 # 0000000;
Footer Port
</te>
 LI table >
```

Introduction to dynamic hyperteset markup language

It is collection of technology used together to Create interactive and animated website. It is a combination of following three technology

- 1. html
- 2. CSS
- z. Java script

```
< html>
< head>
(title)
            HTML + CSS + Tavascript
 DHTML =
  < ! title>
  < Style type = 'text / Css'>
        color : blue;
        background - color: lightblue;
        font - size: 20 px;
        font - weight: bolder
         <1 Style)
         L seript type = 'text / javascript 'language
                = " javascript">
          function Mymsg ()
            alest (" welcome to DHTML");
             alest ("Bye ...");
             document. get Element By Id ("Myd").
inner HTML = Date ();
            L/script>
            < I head>
            (body)
            (P) click the button to display the
```

alest msg --- < 1P>
< button onclick = " My Msg ()"> click Me ... < 1 button>
< P id = 'Myd'> click the button te display

the System Date of Time ... < 1P>
< button onclick = " My Date()"> clickme < 1 button>
< morquee>
< img src = " good morning gif" width = 100 pn>
< marquee>
< cliv> welceme to SHTML Tech ... < 1 div>
< 1 body>
< 1 html>

and the second s

CSS Er

It is style design to design user Enterface more effectively.

features of CSS.

Css support the following list of features

1] Heribility

2] Code Rendering

37 Accessibility

4] Easy manage

5] Global change

6] Save a let of time

71 Easy maintainance

8] Inline / Style sheet

9] Internal Style sheet

10] Enternal style sheet etc.

Structure of CSS.

As per Wzc standard css has the following detaile structure

< html>

< head)

< style type = " tent / css">

Ş

3

< 1 style>1 head>6 body>

/ 1body>

/ html>

CSS Syntax on In CSS syntax is divided into the following three parts

1] selector

21 property

31 Value

- 1 Selector in It is normally the html element.
- 2) property in It is a kind of attribute you wish to change.
- 3) value on Every property has the value

Selector

Declaration

Declaration

(h) { Color: blue; font-size: 12 pre; }

property value property value.

```
Example on
```

```
Lhtml)
Lhead;
Litte;
Cascading style sheets

(Ititle)

Style type = 'tent/css';
h1 
- selector

Color: blue; - value

(Istyle)

Property

(Ihead)

Libody;

Lhi> Melcome to style sheets .. < Ihi)

Libody;

Lib
```

Inline Style Sheet &v

The can specify styles inside the tag in the body port, these styles will be applied only for that perticular line.

e.g

Example 82

< body> (i style = 'color: blue') welcome to style sheets < 11> welcome to style Sheets </P> < b style = 'color: red'> welcome to style sheels <1P> < 1 body>

\* Internal Style Sheets in

These are popularly known as embedded style sheets. If a specify the style in our HTML file itself then they are called as internal.

These styles can not be used in other files

Byntan &

< html> <nead> < style type = "tent / css"> </style>

.< 1 head> L body) < 1 body> < 1 html>

```
Example on
  < head>
   < Style type = 'tent/Css'>
     color: blue; font-weight: bold;
     background - color: yellow;
font - size: 30 px; font - family: tahoma;
      < / Style >
      < Ihead>
      < body)
      <P> welcome to internal styles --- <1P>
      くタン
       < 1 body>
       < I head>
* Enternal style sheet ?
```

If we declare the styles out side out html file, then they are called enternal styles. These styles can be reusable on more than one file.

These file extension is css

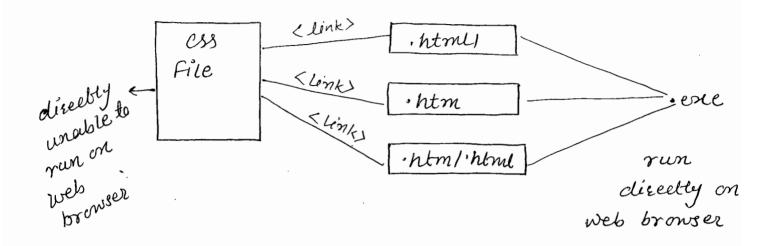
```
Syntan :~ < head)

Link rel = "Style sheet" href = "#" type

= "tent/ Css">

</head>
```

#### External CSS Architecture



## 1 Creating css file

div

{

font - size : 3 cm;

font - family : tahonua;

tent - decoration : underline;

color : blue;

}

Save with . Css extension

## Creating HTML file

< html> (head) < link rel=" stylesheet" href=" Hello. CSS"> < ! heads 2 body> 2 div> welcome lo external style sheets <div>

< 1 body> < 1 html>

· htm or · html extensions of run on any major web browser --!!

\* Morking with Css selectors.

selector means styles reusability, css supports difficult types of selectors

tag selectar

2] ID selector

class selector 37

41 Grouping selectors

5] Universal selector

```
1] tag selector in
          These are popularly known as time
selectors. It matches the name of document
 lagiquage element type
 Syntax :
         div
          Styles
           Styles
           Styles
 Example on
     (head)
     < Style type = 'text/css'>
                 Tag or type selector
      color : blue;
      background - color; yellow;
      font - family ; takema;
      font - size : 30px
     < Ihead>
       L body>
                             or Type selector <1P>
       LP) Welcome to Tag
                                             <117>
                                             </P>
```

2/body>

It is used to specify a style for a single or unique element.

The id selector uses the id attribute of the HTML element, and is defined with #.

.

```
Syntax:

L style>

# div

Styles

Styles

Styles

Styles

L 1 Style>
```

\* ID Selector with prefix or

```
<head>
< style type = 'tent / css')

div # hz

{
    Color: blue; font - weight: bold;
    font - size: 30 px; font - family: tahema;
    tent - documentation: overline;

}

</pre>

</pre
```

/ Signe /
 / head)
 <body)
 <body id = "hz" > Welcome to ID selectors
 <body id = "hz" > welcome to ID selectors
 <body id = "hz" > welcome to ID selectors
 <body >
 <body >
 <br/>
 <br/>

#### ID Selcetor with Java Script

```
< head>
       type =
               'text/css'>
< Style
   color: blue; font-family: Azial Rounded MT;
  < 1style>
  L script type = 'text / javascript'>
   function Myvalue ()
    document, get Element By Id ("div1) inner
      HTML = " jauery";
  </script>
  (body)
   LPX click the Button to change the name of
    the course .... LIPS
   L div id = "div) Bootstrap K /div)
   L div id = "div I) javascript L/div>
   L button onelick = "my value ()"> click me
       ( / button)
   < (body)
```

#### 3) Class selector :~

```
It is used to specify style for group of elements it is always defined with a "."
```

```
Syntax or
            Styles
Example 3
    < head>
     < Style type = 'tent-/css'>
      p. div
       color: red;
       font - size : 20pm;
       < 1 style>
       </ head>
       L body>
       LP class = "div">
                            welcome to class selectors
         <1P>
       < 1 body>
```

\* class selector with Tavascript on

```
< nead>
L Style type = 'text 1 css'>
  color: blue ; font-family:
                              Arial Rounded MT;
 < 1style>
 < script type = ! text / javascript'>
   Junction Myvalue ()
    document get Element By Id ("div"). inner
    HTML = " jauery";
   < / head>
   L body>
   < P> Click the button to change the name
    of the course ....
   < div id = " div" class = "div" > Bootstrap
     KIdir>
   L di'v id = "div1" class = "div"> Javascript
                                   . < Idiv>
   < button onelick =
                       "My value ()"> Click Me
                                   </button>
    < 1 body>
```

```
*
```

```
< head>
< Style type = 1 text/css'>
# div
  color: green;
 font - family: Arial Rounded MT;
  font-size: 20 pm;
Ž
  · div 1
  color : blue;
  font - family : tahoma;
 </style>
< 1 head)
 L body>
 Ldiv id = "div" > welcome to multiple selectors
                      </div>
L div class = "div I"> Welcome to multiple
             selectors --- < / div>
 < 1 body>
```

```
Grouping selectors in
              These selectors are seperated with the "" " notabion. The following enample
   express grouping selector usage.
Example 32
        h1 { font - family : sans - serif }
h2 { font - family : sans - serif }
              font - family: sans - serif 3
     is equivalent to:
      hi, h2, h3 { font-family: sans-serif?
Example 3-
      < head>
       <style type = 'tent/css'>
       # div, · div 2
        color: blue;
         font - family: tohoma;
        < 1style>
         1 heads
         < body>
         L div id = "div") welcome to grouping selectors...
               </div>
        L div class = "div 1"> welcome to grouping
             selector .... </div>
          1 (body)
```

Morking with CSS border in

ISS supports the following list of border property.

- 2. Border color in It specify the Color of border.
- 2. The border-style in It specifies whether a border should be solid, doshed line, doable line, or one of the other possible values.
- 3. The border width or It specifies the width of a border.

```
border - color i red

border - style: dashed

border - width: 3px;

</p
```

# Java Script

\* Introduction to script in

Script is a type of programing language that can be used and client location

Types of script

Scripts are classified into the following two types

1] Client side script 2] Server side script

Client side script

These scripts ore getting executed within the web bronser

e.g :~ Java script live script, NB script

Server Side script

A script which executes within the web servers like

TTS -> Internet information services

Apathe, Tomcat etc.

NET -> iNetpub --> TTS

PHP --> htdocs

AJAVA --> WebApps

ex: php, Tsp, Asp

Difference between Scripts and languages.

### Scripting

#### language

- I meakly typed programming or loosely typed programming or lightweight
- 1] Strictly typed programming
- ] Easy to understand
- 21 Complex to understand.
- I simple te develop
- 3] Tradible to develop
- I no headers files' required
- 4] headers files mandatory.
- 77 no libraries require
- 5] libraries compulsory
- I no special compiler require
- 6] special compiler mandatory
- 1 Client side validation
- 7] server/client side validation/verification.

'I poor graphics

- 8) sich graphics.
- ) Ex. live Script, Java script , VB script, per script , shell script Jscript , Pythen script etc.
- 9] Ex. FORTRAN, BASIC, COBOL, PASCAL, ALGOL, CPL, BCPL, B, C, C++ Java, C# etc.

Introduction to Tavascript on

Tavaseript is power scripting language of the web. It supports all modern web browsers, modern devices.

features of Tavoscript & Tavoscript supports the following list of features.

21 It is client side validation purpose.

21 It can react to events

3] It can be use to validate data.

4] It can be use to create cookies-

5] It is designed with light weight features

6] It is open source or cross platform ....

Tavascript syntani » Tavascript consists of javascript statem - ments that are placed within the script.

Synton: < script language = "javascript" type = "text/javascrip.

< (script)

Syntan: < Script language = " javascript">
Statements
Statements
Statements
</13cript)

Syntan 4 & Script>
Statements
statements
Statements

flistory of Javascript 3 Javascript versional name is live script, It was developed by netscape Corporation later it is renamed as java script developed by Brendan Eich. These syntames are very close to "c" programming language.

Java script stevelure or As per was std., javascript has the following detailed structure.

<html>
<head>
<head>
<title>example <liitle>
<script language = "javascript">
<!---->
<lscript>
</head>
<body>

</body > </br/>
</br/>
</br/>
/ html>

```
Example In
< html>
< nead)
Ltitle>
 working with Is
 </title>
 < script type = 'tent / javascript' language = "javascript";
  function My Msg()
    alert (" welcome to 18");
   < 1 Script>
   </head>
   L body>
   LPS click the button to display the alert Msg. - </P>
   L'button onelick = "mymsg()"> cliek me < 1 button}
   < 1 body>
   </h
```

\* save the file with hold or hom extension of Run on any major web browser.

Javascript Comments on Comments on nen-enecutable statements or Egnore statements using these Comments notation we can declare culstomized statements or use. defined statements within the source code.

Types of comments or Tavascript supports follow two types of comments

O single line comments

(2) Mulbi line comments

```
1] Single line comments on These comments ore
   restricted to a specific line. These are denoted
   with "11"
 example or < head)
           < script language = "javascript">
           1/ alest (" Welcome to 43");
           <1 surjet>
           < I heads
     Op = nothing.
27 Mulli line Comments These Comments are applicable
 to one or more lines. These are denoted with 1 # 1/
 e.g. < head>
      L script >
       / * alest (" welcome to Ls");
       alert (" welcome to LS");
       < /script>
       </head>
  document write () method in
           The write () method writes HTML expressions
 or javascript code le a document
  Syntax: document write (exp1, exp2, exp3...)
Example:
          < head)
          < script type = 'tent / javascript'>
           document write ("welcome to javoscript");
           < 1 head)
```

```
1] document -> object -> webpage
   2] write () -> is method -> webpage level.
  example { head >
          < script type = 'text / javascript'>
document . write ("< hi> Hello word! </hi>
          XP) Have a nice day! <1P>");
          < /script>
          < 1 head}
  example with (br)
          < head}
          < script type = ' text / java script'>
         document, write (" welcome to 78");
( ; · · · <del>-</del>
( - document, write (" < bi/>");
         document. write ("welcome to L8");
        </ script>
         < I head>
()
document writeln() method in
              The writeln() method is identical to the write(
method, with the addition of writing a newline
character ofter each statement.
Syntan & document, writeln (exp1, exp2, exp3,...)
Example: < head)
          L script type = 'text / javascript'>
           decoment , writeln (" Welcome to JS");
          document, writeln ("Welcome to LS");
          L (Script)
           < 1 head)
```

```
\( head\)
\( \) Script type = 'text / javascript' \)
\( document \) write ("\langle head \) style = 'color : blue is
\( fent - size : 35 px is fent - family: tahoma' \)
\( welcome to TS \langle his \)'');
\( document \) write ("\langle font color = 'green' size = '6' \)
\( face = 'century Gothic' \rangle \)
\( welcome to LS \langle 1 font \rangle ");
\( \langle \) Script \rangle \( \langle \)
\( \langle \) head \( \rangle \)
\( \langle \)
\
```

Morking with savoscript string in

In javoscript a string should be in single or double quotes double quotes inside single quotes valid.

Tavascript strings with escape sequences.

An escape character is consist of back slash
"' /" symbol with an alphabet. The following are
frequently using escape characters

17 In: Inserts a new line

2] It: Inserts a tab

3] \r: corriage return

4] 1b: Backspace

5] If: form feed

6] \' : singre quote

7] \" : Double quote

8] \\ : Backslash

## Example: < head)

\* Difference between window document wite of documents wite

There is no difference between these two statements, window is highest Level Object, it centains child Objects of their methods

child object / sub object

window. document. write ();

Browser page method

document. write ();
page method

```
Browser is default object, master object, super object
 write () is a method related to document object
Example.
   (head)
   < Script type = 'text / javascript'>
   window, document, write ("Live Script is java script");
   document. write (" < br)");
   document, write ('Livescript is java script');
   </script>
   < 1 head>
    Tavascript semicolon (;)
             In Java script every statements ends with
 sernicolon (;). It is an optional notation.
Example.
  < heads
  K script type = 'teset / javascript'>
   document, wrîte = (" Livescript is java script")
   < /script>

< 1 head>
 Example.
   (head)
   < script type = 'tent / javascript'>
   document. write (" java script");
   document , write (' Live script');
   document, write
   ( Livescript is java script')
    < /script>
```

< I head>

Note & 1) In the above script semicolon (;) is mandatory.

2) It is a good programming practice to use the semicolon.

\* Java script place in HTML file &

There is a flexibility given to include Javascrip code any where in a HTML document but the follow ways are most prefered in the line environment.

1] Script in < head) \_\_\_\_ < / head > section

2] script in Lbody ---- < 1 body > section

3] Script in <body> \_\_\_ < 1 body & 4 < head> \_\_\_\_ < 1 head> section

4] Script in f external file f then include in < head>
---- < 1 head> section.

Enample &

Lhead>

< script type = 'tent / javascript'>
document write (" welcome to Head Section");

< 1 Script>

< 1 head>

< b2/>

< body>.

< script language = " javascript">
 document. write (" welcome to the Body Section")

< 1 body >

\* External javoscript &

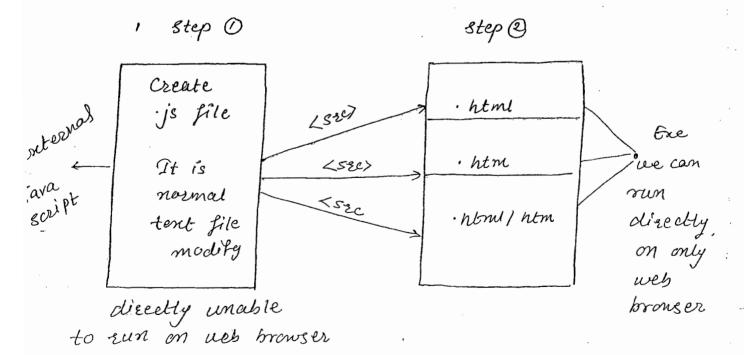
Javascript can also be placed in a external files, these files contains javascript code, this code we can apply on diff. webpages. External javascript files extensions is . Ts

Note on

17 External script cannot centain the <script> </script> tags!

2] To use an external script, point to the 'js file in the "szc" attribute of the (script) tag.

\* how to run external TS on



```
* Creating javascript file of document write ("< h1 style = 'color 'blue'> welcome to external java scripts ... ! < /h/>");

document write ("< br/>
Thank U...");
```

save with Example is extension @ any location.

\* Creating HTML files on

```
<html>
<html>
<head>
<script type = "tent-/ javascript" szc = "Enample"

· js "> < 1 script>
< 1 head>
< body>
< 1 body>
< 1 html>
```

save with thrul or him entensions ----

\* Java Script code in.

It is a sequence of javoscript statements, each statement is executed by the browser in the sequence they are returned

\* Tavascript blocks in

Javascript Sentences can be group together in blocks. blocks starts with a left curry bracket of end with a right curry bracket?

The purpose of your block is to make the sequence of statements execute together.

Part Committee C

< head;

< script type = " tent / javascript";

{
 clocument · write (" This is a Block");

}

< !script >
 < ! head;
</pre>

- \* Tava script Popup Bones &-Javascript has 8 kind of popup bones.
  - 1] Hert Box
  - 27 Confirm Box
  - 3] Prompt Box.

Alert Box 3- An Alert Box is often used if you want to make sure information comes through the user when an alert box pops up, the user will have to click "OK" to proceed

Syntan & alert ("Message");

\* Hew to display mulliple line on the alert.

we cannot the use <BR> tog here because alert is a method of the window object, that cannot be interpret HTML tog.

Thisted we use the new line escape character.

<head>
<script type = "tent / javascript">
 alert (" Javascript \ niska \ na \ n client - sicle
 \n. programming \ n language");
 </script>
<! head>

Blank

.

.

. . .

. ...

## Example 3 A cert with fundions

< head>
< script type = 'texts / javascript'>
function My Alext()

{
 alext (" JavaScript \nis \ns\ nctiont - side \
 n prograoming \n(anguage");
 alext (" |\n\t2\n\t+\t3);

}

< / script>
< / head>
< body>
< P> Click the button to display alext
 Messages ... < |P>
< button onclick = " my Alext()"> Click Me < 1butt
< 1 body>
< 1 body>

\* Prompt Box or Confirm Bon

It is often used, if you want the user to verify and accept something.

When a confirm box pops up, the user will have to click either "OK" or "Cande" to proceed.

If the user clicks "ok" the box returns true. If the user clicks "cances", the box returns false

```
Syntax on
         confirm ("Message");
 example 1 5~
  <body>
  (script type = 'tent/javascript')
   confirm ("Click OK or Canele");
   < 1 script>
   < Inead>
Example @ Ex
 < body >
 < script type = 'tent/ javascript'>
  vor X = confirm ("click OK or Canell");
   alert ("User Selected Option is: "+x);
  < /script>.
  1/ heads
 < body)
 < script type = 'text / javascript'>
  vor X = confirm ("Click ok or canche")'s
   alert (" User seekeleel option is: "+x);
   if (x = = true)
      alert (" User Clicked on OK Button");
  3.
   else
```

alert ("User Clicked on Canete Button");

ز،

```
< /script>
 Example on
            Confiem with function
< body>
< script type = 'text/javascript'>
Function my confirm ()
  vor x = confirm ("click OK or Cameel");
  alert (" User selected Option (s: "+x);
  if (x = = true)
  alert ("User Clicked on OK Button");
  </script>
  < 1 head)
  < body>
   <P> Click the button to display the user.
   Selected . Result . . < IP>
    < button onclick = "my Confirm ()"> Confirm
    </bar>
```

Prompt Box ?~

It is used to, if you want the user to input a value before entering a page. When a prompt bon pops up, the user will have to click either "OK" or "Cancel" to proceed after entering an input value

and the second of the second o

If the user clicks "OK" the box returns the value. If the user clicks "Cancel" the box returns null.

Syntax in prompt ("Sometent", default value");

Example on 1

/ head)

/ script type = 'tent/javascript')

prompt ("Enter Any Number:");

//script >

//hehad)

Example & D;

Lhead;

Local;

```
Example 82
 < head)
 < script type = 'tent / javascript'>
  var My Val = prompt ("Enter Any Number: "," 123");
  alert ("User Entered Value is: "+ my val);
  13 (My Val > 100)
   alert ("User Entered Value is Big");
  } else it (myval < = 100)
    alert ("User Entered Value is Small or Equal");
       </script>
      </hehad>
Eg :~ prompt with function:
   L heads
   < script type = 'tent / javascript'>
     function My Result ()
     vor Myval = prompt (" Enter Any Number:",
     if my val > 100)
      alert ("User Entered Value is Big");
      else if (my val <= 100)
```

```
alert ("User Entered value is Small or Equal")
  </script>
   < [head)
    Lbody)
    <P> Click the button to display user Entered
    Value ... <1P>
   Box < / Button >
    < 1 body >.
Note on
     If the above script, if click on cancel button
it return null, that is unable to handle with
  directly condition.
  Enternal Javascript with popup bones &
  Step 2 % Create a required 75 File
      function My Alest ()
      {
    alert (" Welcome to Enternal Is");
        function my confirm ()
```

```
confirm ("Click Ok or Cancel");
     function My Prompt ()
      prompt ("Enter any Value:");
   Save with is Entension @ any location ..!!
Step 23- Prepairing, html file.
                 required.
  L'html)
 < heads
 L script type = "text / javascript" src = "myscript. js"
 </head>
   人 body>
   < Click the button to display allert Message .. </p>
   < button onelick = " my Alert ()"> Alert < 1 button>
    < P> Click the button to display Cenfirm
    Message . < IP>
    Lbutton onelick = "My Cenfirm()"> Confirm < / button
    <P>Click the button to display Prompt Value. <P.</p>
    < button onelick = " My Prempt ()"> Prompt < 1 button
     < 1 body>
     / html)
```

- \* Working with javascript variables or working with Variables remember the following statements.
  - (1) Every variable should storts with an alphabels
  - (2) Veriable should not contains unneversary special charcters
- 3 Variables or case sensitive
- (4) Every voriable should have reasonable length
- (5) Keybooords Should not be used as vouiables
- (3) In Java Script every voriable should stocks with vor keywords.

In softwore environment we can declare the variables the following two ways.

- 17 Implicit declaration
- 27 Explicit declaration
- II Implicit declaration g 7n every scripting it is the default declaration example g y = 100
- 2] Explicit declaration &

  All programing languages default declaration

  example & int a = 5

Scripts are able to support implécit f'explicit declaration but languages are only explicite declaration.

Note à Explicit dellarabien les allways recomman - ded or a good programming practice

\* Tava Script datatypes. or

In Tava Script Data types ore
classified into the following two types.

11 Premitive datatypes 21 Non-premitive data types-

1] fremitive data types. 3~ Java script has a five primitive data types

· 17 Steing

· 2] Number

· 3] Boolean

· 4] Undefined

· 5] Null

21 Non-premitive detatypes or

These are popularly known as reference
or composite data types.

\* Premitive data types.

1) Javascript strings in In java script a string should be within a single or double quotes

~ vor name = "nit";

No. data type Java script has only one type of numbers, they can be seturn with or without decimals

vor x1 = 34.00; with decimals.

3) Boolean data type

It is used to represent a boolean value, These are as follows

true 11 equivalent to true, yes , or on false 11 equivalent to false, no, or off.

(4) Undefined or Tt is a value of voriable with ke no value.

vor n; II Now x is undefined.

(5) Null on Voriables can be emptied by setting the value to Null Ex,

vor n = null; // Now n is null

\* Dynamic data types or Java script has dynamic types. This means that the same voriable can be used as different types.

Example,

Yor X; // Now X is undefined

Yor X = 5; // Now X is a Number

Yor X = "Raaj"; // Now X is a String,

\* Non-primitive data types or When a voriable is declaired with the Keyword new, the voriable is an object.

Example, Nor name = new String(); Vor x = new Number(); Nor y = new Boolean();

```
Example 3~
  < head>

= 'tent / javascript'>

   alert ("welcome to JS");
  </seript>
  < 1 heads
  < body>
  < noscript>
   oops your Browser not
   supporting Tavascript Update / Change the
   script settings and
  / no script>
  <1 body>
```

\* < noscript > tag ?~

It is used to provide an albernate combaints for users when script is disabled or not supporting, It is a paired tag.

It is always declared within the body seelin

Syntane zv.

<noscript>-----</noscript>

\* Tavascript operators &

Tava script supports the following list of operators.

1] orithmetical operators &

2] Comparison operators

3] logical operators etc

\* Asithmetrical operators

Using these operators we can perform the arithmatrical operations.

The following table describes the operator, descriptions, e.g.

perator	Description	Example
+	Addition	j+12
	Subtraction	j-22
*	Mulli plication	j * ?
/	Division	j 1.3:14
%	Mo dulus	j % 6
++	Increment	++j
	Decrement.	<i>j</i>

\* Composison operator

Using these operator we can compair

The following table describes the

operator	Description.	Example
= =	és equal to	j==42
> >	is not equal to	j!=17 j?o
>=	is greter Itan or equal to	J<100 J>=23
<b>&lt;=</b>	Is cess than or equal to	j <=13

\* Logical operators & Vsing These operators we can work with logical expressions.

The following table describes the operator expression, descriptions, example

operator	Description	Example
* 44	And	j==1 & f k==2
11.	OR	j < 100 11 j20
,	NOT	$\int_{-\infty}^{\infty} (j = -k)$

\* Tavascript conditional, control statements,

Tava script supports the following list of conclitional centrals

- 1] if statement
- 23 if ... else statement
- 31 ip -- elseif -- else statement
- 4] switch Statement

```
if statement
         Use this statement we can execute through
 block of statements.
  Syntan :
          if (condition)
            True statements
Example 3~
     < head)

< Script type = 'text / javascript'>

vor x = prompt ("Enter Any Number!");

      17 (x>100)
        alert ("Number is Big");
       </script>
</head>
```

```
* 2] if --- else statement &
      In this conditional contrals statement,
  If the given condition is true, true block
    can executed other wise else block executed.
   blocks means collection of logical statement
  Syntan :
            Ceondition)
             True Block Statements.
             True Block Statement.
           else
              false Block statements
              false Block statements
 Example 5
        < head>
         < Script type = 'teset / javascript'>
         Not X = prompt (" Enter Any Number");
          if (x>100)
              alert (" Number is big");
              1/Script>
              < 1 heads
```

```
if ... else if ... else statements &
           In this conditional control we can select
 any one of block among the several.
 Syntax or
   if (condition 1)
       code to be encuted if condition I is true.
     else if (condition?)
       code to be enecuted if condition2 is true.
        else
        code to be executed if neither
         condition 1 nor condition is true
Example 3
   < head)
    < script type = 'tent/ javascript'>
      Vos X = prompt (" Enter Any Number");
        alert ("Number is Big");
```

else if (x < 100)

```
alert (" Number is small");
     else if (x==100)
     alest ("Number is
      else
     alert ("Invalid Input");
     < /script>
     < 1 head>
Example 2
   < neads
    _ function my course ()
       Nor course = prompt ("Enter Any Course Name
      (HTMLS, CS3, Bootstrap, jauery) ""," HTML5");
      if (course = = "HTMLS")
        alert (" Your one Selected: " + course);
```

```
else if (course = = " Bootstrap")
               "Your are selected: "+ course);
        alert ("Your ore Selected:" + course);
       else
        alert ("course not Existed");
       </script>
       </ head>
       < body>
        < P style = 'coloz: blue'> Click the button to
display the User Entered Course Name: <1P>

    A button onclick = "my course ()"> Select_ Course

 </button> 1
      < 1 body>
```

Switch - Conditional Control &

Use the switch statement to select one of

many blocks of code to be executed. It is a bosically an enhanced version If else statement.

```
Syntax 3~
  Switch (x)
    case 1:
      enecuted code block 1
     break;
    Case 2:
        enecuted code block 2
       break;
      default:
        code to be executed if n is different from
       case I and 2.
Example on
   < head)
    < Script type = 'tent / javascript'>
      function My course()
      var course = prompt (" Enter any course name
       (HTMLS, CS) 3, Bootstrap, TQuery): ","JS").
      switch ( course)
         Case (course)
         Case 'HTML':
         alert (" You are selected:" + course );
         break;
         case 'Js':
         alert ("You are Selected: "+ course );
          break;
          case 'Css';
```

```
alert ("You are Selected: "+ Course);
break;
Case 'jauery':
alert ("You are Selected: "+ Course);
break;
default:
alert ("You are selected Wrong Course");

3
3

< Iscript>
< I head>
< body>
< P> Ceick the button to display the course
Name: < IP>
< button on click = "My course()"> Click me < I button>
< I body>
< I body>
```

\* Tavascript key words &

These are popularly known as reserved words, they can not be used as variables, functions, methods, lebles and object name.

In javascript several keyword existed the following are frequently used.

abstract, boolean, break, byte, case, catch, char, class, const, continue, debugger, default delete, do, else, enum, export

```
* Tavascript Cooping centrals in
     The java script supports the following looping
controls.
       I. for
         2. while
        3. do - while ....etc
       It enecute a block of statements repetitedly
 unbil the given condition false.
  Syntan gu
  for Cinitialization; test condition; iteration
      Statement)
       Statements(s) to be executed if test condition
     is true
      Statement (3) to be executed if test
      15 tene
   Example &
       2 head>
      < script type = 'text / javaseript'>
       for (1=1; ix=10; i++)
        document, write ("The Value is: "+i);
        document, write ("< $br1>");
       < /script>
```

< Thead)

## Example on 2nd method

```
<head>
< script type = 'tent / javascript'>
for (i=1; i<=10; i++)

{
    document write ("The Value is: "+i);
    document write ("The Value is: "+i);

</pre>

</
```

ex, <head>

<

\* break and continue statements.

1] Break Statement

The statement will break the loop at a specific condition

```
3 Example &
```

```
<head)
< swipt type = 'tent/javaseript'>
for (i = 1; i < = 10; i + t)

{
    ip (i = = 5)
    {
        break;
    }
    document write ("This Value is"+i);
    document, write ("< br/>");
}

< /script>
< Ihead)</p>
of p | 1
2
3

4
```

& Continue in

The statement will break the current loop of centinue with nest value.

```
document. write ("This Value is" + i);
  document. wnite (" < br/>");
   < /script>
   * While loop &
      It execute the block of statement repeatedly
n number of times.
 Syntan on
    while (variable <= endvalue)
        code to be executed
       code to be executed
Example or
  1 html>
   < body>
   < Script type = "tent / javascript">
   yar 1=1;
     while cic=10)
    documents write ("The number (s" +1);
    document. write ("< br/>);
      1++;
      < /script>
      < 1 body>
```

```
do-while fr
      It enecute a block of statement repeatedly
 n+1 time
Syntan &
    do
      code to be executed
      code to be executed
      while ( variable < = endvalue);
Example 3-
   < script type = "tent/javascript">
   document, write ("The number is"+i);
   documents write ("< b21>");
    シャナら
```

while (1, <=10);

< 1 body>

```
Working with Javascript function?
         Function is a block of code that will be
executed only by an occurance of an event, that
  time function is called. Function is group of
reusable code which can be called anywhere in
 your program. It eliminates the need of writting
 same' again and again.
 Syntan 8~
    function functionname ( NOS1, vorz, ... NOTR)
     specify some code
     specify some code
      specify some code
Example 2 3-
    < head >
    < script type = 'text / favascript'>
     function My msg ()
      alert ("welcome to functions");
       </script>
       < I head>
       1 body)
       < P> Clickt the button to display the Alerb
         Msg ... < 1P)
       < button Onclick = " my Msg ()"> Click Me L I bubbon
       < body>
```

```
The return statements &
It is used to specify the value that is esturned from the functions, it is an
  optional statement
Example 1 in
  < head)
   L seript language = " javaseript">
function My Return()
     return ("Welcome to Return Statement");
    < /script>
     < 1 head)
    _ L body>
     < script type = 'text / javaseript'>
       document. write (my Return());
      < /Script>
      </body>
   Enample 2 %~
     (head)

/ script language = " javascript ">
function My Return (x, y)

        è return 20+4;
```

Lifetime of javascript Voriables

A variable declared within a javascript
function becomes a local, only accessed by
within that function, (the variable has local
scope)

You can have local voriables with the same name in different functions, because local voriables are only recognized by the function in which they are declared.

Local voriables are deleted as soon as the function is completed.

Global javascript Voriables in Variables declared outside a function become global, all scripts and functions on the web page can access it.

Global voriables are deleted when you close the page.

Example on

<head>
<script>

Yor X=5; — global scope
function My Vall)

?

Yak a=5; — local scope
-----

function My Val 1()

Nas 6=63

3

backgroung color of page, It is a properby inside document object.

Syntan 3r document, by Color = " color Name / Color Code"

```
document by color = "blue";

function My Green()

document, by color = "# OOFFOO";

'script)

\lambda | head;

\lambda body;

\lambda P \tag{Click the button to change the background.}

color of the page !! \lambda !P \tag{Slue()"} \text{Blue \lambda l button} \lambda \text{Polick the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

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\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

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\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change the background.}

\lambda P \tag{Click the button to change
```

\* Wasking with javascript events.

Events or actions that can be effected by javaseripts. Events are normally used in combination with functions.

The following list of events frequently used

Event Deserviption.

click occurs when the user clicks on a link or form element

Ocears when an error happens during error loading of doe. focus Occur when input focus is given to a form element Occurs when a page is loaded into load Nevigator Ocears when the user moves the mouseout pointer off Occurs when the user moves the pointer nouseover Eeset when the user clears a form using the reset button Select Occurs when the user selects a form

elements field

Bubmit Ocears when a form is submitted

unload Ocears when the user heres a page

17 On Click events
This events fires when the user clicked on a element

Syntan : In HTML: < element onclick = "Some TavaScript Code">

> In Java script: object, onclick = " Some

Non supported tags:

The Tags are not supported onellek.

event: < bose>, <bdo>, < be>, < head>, < html>

<iframe>, <meta>, poreum>, < script>, <style>\$
</title>

```
Supported Js objects:
Document, window
```

```
Example

\( \langle \text{body} \)

\( \langle \text{button onclick = "alert ('Welcome to Is} \)

\( \text{Events')" > Events} \)

\( \langle \text{button} \rangle \)

\( \langle \text{script type = 'text = 'text / Javascript} \)

\( \text{function pymsg()} \)

\( \text{alert ("welcome to Events");} \)

\( \langle \text{1.5 cript} \rangle \)

\( \langle \text{Click the button to display the alert } \)

\( \langle \text{psg...! \langle (1P) } \)

\( \langle \text{button onclick = "mymsg()"} \) Click me \( \langle \text{bubton}, \)
```

## 2] On double click

This events fires when the user double click on the element

Object . ondblclick = " some Java Script code"

In HTML

< element on dblclick = "Some Java Script Code")

In Javas cript

```
Example
     < head>
     < script type = 'text / javascript'>
      function My Date ()
        document. get Element By Id ("dt"). inner HTML
       = Date ();
         </script>
         < I head)
         < body)
         Kp id = "dt" > Double Click on the Button
         and Observe the output .. </P>
         < button onelbiclick = "My Date()"> click Me
           </batton>
         < input type = 'button' value = " clickme"</pre>
            andblotiek = " My Date ()"/>
           <1body>
3] Onload
         This event fires when the object has been
     loaded. It is often used within the body
  elements on load.
```

Syntam

In HTML:

Lelement onload = "Some Javascript Code">

In Javascript:

Object onload = "Some Javascript Code"

This event is triggered if an error occurs while loading an external fire (e.g. a document or an image

Syntan In HTML:

L'element onerror = "some Javascript Code">

In JavaScript:

Object : onersor = " Some Tavascript Code"

```
Example
      < head>

<pre
         function Img Errc)
              alert (" Image FailtoLoad");
             </script>
              < 1 head}
              < body>
               <P>> Refresh the page and Observe ... <1P>
               Ling szc = "tml5. png" width = 150 px
height = 150 px onerror = "Ing Err ()" alt
                = "Borry Normy"/>
              < 1 body>
  Onnouse over &
               These events fixes when you overmouse curser
    an element
  Syntax:
         In HTML:

Letement conmouseover = "Some Java Script Code">
          In Java Script:
               Object · onmouse over = " some Java Script Code"
On mouseout 3-
                This event fixes when mause pointer of
 frame an element
```

```
Syntax :
      In HTME
    Lelement on mouse out = "Some Javascript Code">
   In Tavascript: Object on mouseout = "Some Java Seript code"
Example 1 3-
       < head)
       < Script type = 'text/ javascript'>
        function mover()
        alest ("Mouseover");
          alert ("Mouseout");
         < Iscript>
          < /head>
          4 body>
          < dir style = color : blue onmouseover = "mover()"
          on mouseout = "Mout()"> Bring The Mouse Pointer ...
          < Idiv>
          < 1 body>
Enample : mouséover
          < body>
           < h1 on mouse over = " style · color = ! red!"
          onmouseover = " style, color = 16lack")
          Mouse over this tent <1h1>
          <body>
```

```
Form Events on 17 Onblur of
```

1] Onblur & This event occurs when an object loss the focus, It is most often used with form validation code (when the user leaves a form field)

Note: - The onblue event is the opposite of the onfocus event

Syntan & In HTML: L'element conblue = "Some Java Script Code">

In Tavascript :- object onbluz = "Some Tavascript Code"

Non Supported HTML events or on blur event unable to Support the following HTML elements 

<br/>

<br/>
bese, Lbdo, Str, Shead, Lhtml>

<iframe, Smeta, Sparam, Script, Style>, \$

<title>.

Supported Is objects on Document, window

Example 0 3-

/ script type = 'text/ javascript'>
function upper(ase()

Vor x = elecument, get Element Byld ("frame"); n value = x. Value to Upper Cose ();

3 Enter your name < br/> Linput type = "tent" id = "fname" on blur = "upper case()".

Onfocus Event & This event fixes when an element got gets a focus it is most often used in,

The is most often used in input get-select of the is opposite of orbital event anchors sinput of selectors.

Syntax :- In HTML: < element onfocus = "Some JavaScript Code">

In Javascript:

Object. onfocus = "Some Javascript Code"

Supported Is Objects: Locument, windows

Lhead>
Localpt type = 'tent 1 javoscript'.>

function set Style (x)

{
 document · get Element By Id
 (se) Style · back ground = "yellow";

}

LIscript>

LIhead>
Lingut type = "tent" id = "fname" on focus = "set Style (this id)"/>

```
< b>/>
 Last name: < br/>
  < input type = "text"id = "Iname" on focus = "set-style
   (this id)"/>
    LI body>
 Orselect or This event fires after some tent has
been selected. This event frequently used for
  within:
           'file">,
         L'input type = "password"),
         L'input type = "tent">, and {tentorea}
Syntam or
        < element onselect = "script">
      < head)
      A script type = tents/javascript'>
      function Myselect ()
        alert ("Sorry Tent Should NOT Select");
       alert ("Content Write Protected");
         < lscript>
         < I head}
         < body>
         < form;
         < Imput type = 'tent' value = " Javascript"
        onseleet = "myseleeb()"/>
         L'textorea rows = "5" cols = "23" onselect =
   "My Select ()"> HTML5 is New Hyper Text markup for
      mobile Apps ... < Itembarea>
             < 1 body>
```

```
Onresize Event; when the size of an element
  has been changed then this events fires
 Syntax on
      In HTML:
   < element onresize = "some JavascriptCode">
  In Javascript:
     Object . onresize = "some Javascript Code"
Example en
     < head>
     <script type = tents / javascript'>
      function my Page ()
        alert ("Sorry Page Resized");
        </seript>
        </head>
        < body onsesize = " my Page ()">
         <P>> Resize the Page and Observe ... <1P>
         <P> It displays Worning Mag -- <1P>
          ( / body )
 Types of errors in Javascript or Javascript supports
 the following dist of errors, these are
  dévided înto. a) Syntan error
                    b) Runtine error
                    c) hogical error.
```

Tava Script supports following three types of errors in

Syntan Error à le called as parsing errors, occurs ab compile time for traditional programming languages at interpret time for Javascript.

following example causes a syntax error because it is missing a closing parenthesis.

Example: < body>

< script type = "tent/javascript">
document. write (; =
< script
< script
< syntam error..!
</pre>

Puntime Errors & These one called exceptions, and these errors occurred at execution time.

The following example causes a run time esser because here syntax is correct but at run time it is trying to call a non existed method?

<body>
<br/>

Logical errors: These can be most difficult error to find. This errors occured, if you make a mistake in the business logic. These errors unable to handle.

( head)

\* Exception handling in Java script or

Thy. Catch Statement This statement allows the you to test a block of code for errors. The try block contains the code to be sun, of the catch block contains the code to be executed if an error occurs.

Example () < head)

<script type = 'tent / javascript'>
alert ("Welcome to Exceptions");
alert ("Thank U");

/ script)

/ head>

The above script get executed successfuly

O/P in welcome to exceptions.

```
In the above example we need to apply the
catch block.
Syntan G
         < script>
         code to run [break;]
         catch(e)
         Code to run if an exception occurs [ break;]
         < head>
        < script type = 'tent / javascript'>
         alst ("welcome to exceptions");
         catch(e)
         alert (e. description);
          alest ("Thank you");
          </ script>
          < 1 head>
```

Above script get enceuted successfully

```
eval() :- It is a global function stands for
  evaluate. It evaluates a numerical values
   Syntax : eval (expression)
 0.90
          < head>
          < script type = 'text / javascript'>
          var x = prompt ("Enter value te evaluate");
           alest (eval (20));
           alerb ("Next");
           In the above script of you enter the numerical value
 script get encented successfully otherwise script unable t
      That time we should implement try catch block.
         < head)
e.g.
         K script type = 'tent / javascript'>
            Var x = prompt ("Enter value to evaluate")
            alert (eval (x))
           catch(e)
           alest ("Sorry Alpha-Invalid: "+e description)
            alest ("Next")
            </script>
```

< 1 head)

```
Finally block on This block get already executed regardless of an exception occuring.
              < script>
               code to sun [ break;]
               Catch (e)
               code to run if an exception occuss
                [ break ; ]
                Code that is always executed regardless
of 11 an exception occurring
             (1 Script)
        (head)
        K script type = 'text / javascript'>
           Nor X = prompt (" Enter value to evaluabe")
            alest (eval(x))
           catch(e)
                     "Sorry Alpha - Invalid: "+e. description)
            finelly
```

```
{
  alert ("This Block Always get enecuted");

}
alert ("Nent")
  </script>
  </head>
```

Throw statement or This statement allow to you create an exception if you use this statement together with try catch statement, you can control program flow and generate accurate error message. The exception can be string, integer, boolean or an object.

Throw Exception

```
{

if (err = = "Err1")

document. write ("Error: The value is too high");

if (err = = "Err3")

{

document. write ("Error: The value is not

a number");

}

{

// Script \

(Isoript)
(Ibody)
```

Tava script Global function on

# Isfinite() function or The isfinite is used to determine whether a specified number is finite or not isfinite is a toplevel function and is not associated with any object

Syntan : is finite (number)

is Nan() function or The is Nan function is used to determine whether a value is "Nan" (not a number) or not.

## is Nan (text value)

Parse Int () function

It porse a string and returns an integer

Syntax porse Int (string

Parameter String

Description Required The string to be parsed.

\( head \)
\( \suript type = \left / javoscript' \)
\( var \times = 100;
\( var \times = 200;
\( var z = \times + y \)
\( document \cdot write(z);
\( \left / Script \)
\( \left / head \)
\( \left / mod \)
\( \left / head \)
\( \left / mod \)
\( \left / mo

```
\[
\text{head}
\left\{ suript type = 'tent / Javasuript"}
\[
\text{vor } \times = 100';
\text{vor } \text{y = '1200'';}
\[
\text{vor } \text{z} = \text{n+y};
\]
\[
\text{document. write } (\text{z});
\(
\text{/ Soript}\)
\(
\text{/ head}
\)
\[
\text{0p} \Rightarrow 100200
\]
```

```
< head>
<script type = 'text/ Javaseript'>
  var n = 100;
  vor y = "raju";
  vor z = x + y parseInt (y);
  document. write (2);
  <!script>
  <!head>
```

. -> Nam

```
<head>
< script type =' tent/javascript'>
Yor x = 100;
Yor y = "200";
Yor Z = x + porseInt (y);
document write (z);

< /script>

< / head>
```

→ 200

```
<head)
<script type = 'text/ javascript'>
Yor x = 100;
Yor y = "raju"
Yor z = x+y;
document write (z);
</script>
</script>
</script>
</script>
</script>
</script>
```

→ 100raju.

```
<nead>
<script type = 'tent / javascript'>

Yor ze = prompt ("Enter Any No:");

Yor y = prompt ("Enter Any No:");

Yor z = porseInt (x) + porseInt (y);

document write ("sum of two no (s:"+z);

< 1 script >

< 1 head>
```

parse float () function or It parses a string and return a floating value,

- Syntan & parse float (String)

```
Example in

\langle in

\langle head \rangle

\langle script type = 'text / Javascript' \rangle

\text var \tau = 100.54;

\text var \text = 100.20;

\text var \text = parse float (\text ) + parsefloat (\text );

\text document, write (\text );

\langle 1 script \rangle

\langle 1 head \rangle
```

Working with Tavascript objects in Tavascript is object based programming, it allows you to define your own objects and make your own variable types. An objects has properties of methods.

Define property & Properties on values associated with an object
e.g. length, width, height, Name etc.

Methods on These are albions that can be performed on objects
e.g. open, close, Resize etc.

```
<body>
<br/>
```

document a write ("The string in Uppercase: +str to Upper Case ()) documents write < " < br/> >"); document : write ("The String in Lower Case: "tstr to lower case ()); < 1 Script> <1 body>.

Commonjavascript objects & In Tavascript the following list of objects listed 17 Array Objects 2] Boolean objects 3] Date objects 4] Math objects 5] String Objects 6] Number Objects

Browser objects zu

Tavascript supports following list of browser objects

1] Mindow Objects

71 RegExp Objects.

- ~ 2] Navigator objects
  - 37 Screen objects
- . 43 flistory objects
  - Location objects

```
mindon objects in
             It is highest level javascript object, which
  corresponds to the web browser window. It has the
  following list of methods:
 1] open () method in
            The open () method opens a new browser
window.
   Syntax & window open (URL, name, spees, replace)
Example
  < body)

  \[
  button onclick = "window.open ('http://www.nareshit.
  \]

   cem')">
   Novesh IJ < 1 button>
   in')"> NoveshIN < 1 button>
   < 1 body)
Enponple
   < booky)
   < head>

    Script type = 'text / javascript'>

    function Myopen ()
    window. open ("http://www.nareshit.com");
    window . open ("http://www.noreshit.in");
     </script)
     < body>
```

```
< P> click the button to open Noreshit . com on a New
tab or window .... < IP>
< button onclick = " Myopen ()"> Click Me < 1 button>
< 1.body>
  Mindow print () method in
                 It prints the contents of the current window
  Syntax & svindow, print()
 Example &
  < head>

< script type = 'tent / javascript'>
  function mypage()
       window.print()
 < 1. Script>
     < 1 head)
< body>
     <P>Click the button to print the current page...!! <11
     < button onclick = "myPage ()"> PrintPage (/button)

Window stop () Method &
```

This method stops windows loading.

Syntax & svindow, stop ()

```
Example on (head)
          (Script)
          window. Stop ();
         </script>
         < I head>
         escape
 Navigator objects in
         This objects centains the information about the
web browser
        It supports the following list of properties on
  Peoperty
                               Description.
                       Returns the code name of the
I app Code Name
                       browser
3 appName
                      Returns the Name of the browser.
                      Returns the version information of
I appression
                      the brenser
· J Cookie Enabled
                       Determines whether cookies are
                       enabled in the browser
  Example &
       <body>
```

< script type = 'text / javascript'>

document. Write (" < br/>);

" + navigator - appName);

document write (" The Name of the Browser is:

document. write ("The version of the Browser is:"
+ navigator. appression);
</script>
</body>

2] Navigator objects methods.

It supports following list of methods

Java Enabled ();

Specifies whether or not the browser has Tava enabled.

Example &

L boely>

< Script type = 'tent / javascript'>
document . write (" The status of the javascript is:

" + navigator, java Enabled ());

< /script>

< 1 body>

3] The Screen Object

This contains information about visitor's screen It has following list of properties

Property avail Height

Description
Returns the height of the screen
(excluding the windows took for)

avail width Returns the width of the screen (excluding the windows Tosk bor)

height Returns the total height of the screen width Returns the total width of the screen.

ex.

<body>
<script type = 'text / javascript'>
document write ("The width of the screen is:"
+ screen, width);
document write ("<br/>);
document, write ("The height of the screen's:
"+ screen height);
</script>
</script>
</script>
</script>
</script>

- '7] History Object & This Object contains the URL of the Visited by the user, it is a port of window Object. It has the following list of the properties of methods.
  - II (ength () property in

    It returns number of wrl in the history list

    Syntax of history length

Note & Internet Explorer of opera stort at 0, while fixefore, Chrome, & sofari stort at 1.

```
Example &
   < body>
   < script type = "text / javascript">
   document. write (" Number of URIS in history list:"
    + history. length);
    </script>
    < 1 body>
  flistory objects methods ?~
                   objects supposts the following list of
 methods.
     Method
                                       Description.
                      Loads the previous URL in the history
 1] back ()
                       list
                       Loads the next use in the history lis
2J Forward()
    90 C)
                       Loads a specific URL from the history
    < head>
    < script type = 'text / javasoript'>
    function HisBack()
      Window history back ();
     function Hisfor()
```

window. history. forward();

```
< I heads
 < body)
 (P) Click the button to transfer to backword history...!! <IP)
< Button onclick = "His Back ()"> His_Back </button>
< P> click the button to transfer to forward history-11(1P)
< button onclick = "History"> His-for </button>
 < 1 body)
 < /script>
 < 1 head>
Location Objects In
          It contains information about the current
URL. It is the port of window object. It has the
 following list of peoperties
Property
                     Description
                 Returns the anchor portion of a URL
    hash
                 Returns the host name of port of a URL
     host
31 hostname
                 Returns the host name of a URL.
47 hrep
                 Reburns the entire URL
5] Pathname
                 Returns the path name of a URL.
 Example
      < script type = 'teret / javascript'>
      document. write (location. hrep);
      </script>
       </body>
                                       Recognize space
    output or URL = http:// D: shweta 20%/ sneha
```

Location Object methods. In This method supports the following list of methods

Method Description

assign() Loads a new Document
reload() Reloads the Current-document

Replace() Replaces the current-document with a new one.

output : nareshit.in.

\* Document-Object on Each him document loaded into a browser window. It has following list of property.

If the title property on The title property returns the title of the current document (the text inside the HTML title element)

Syntan or document title

Enample & Lhead>

Ltitle>

My Javoscript client side

( I title>

( Ihead>

Loody>

Locument · write ( document . title);

( I body>

( body>

output &

my Javascript Client side

my Javascript Client side

2] document URL property 3. It returns the URL of the document

Syntax - document. URL;

Example &

\( body \)
\( script type = 'tent / javascript' \)
\( document \cdot write (document \cdot URL);
\( \lambda \)
\( \lambda

off or same as above example

- \* Javascript objects &
- 1] Array Objects: It is used to store multiple values In a single variable.

In Tavascript while you are working with array variables you should remember the following list of points.

- 1) The array is a special type of variable.
- 2] Values are stored into an array by using the array name & by stating the location in the array you wish to store the value in brackets.

\_\_Example \_\_ my Array [4] = "JavaScript";

3] values in an orsay are accessed by the orray name of localion of the value.

E.g: my Array [2];

4] Tava script has built in functions for arrays

In Tavascript array object supports the following three types of syntanes:

1 Regular

vor my Names = new Array(); my Names [0] = "Ravi"; my Names [1] = "Smith"; my Names [2] = "Raju";

- 2) Condensed Nos myNames = new Array ("Ravi", "smith", "Raaj");
- (3) Literal

  vor my Names = [ "Ravi", "smith", "Raju"];

```
Array Object properties.
                          Array Object supports the following
 property.
length or This property is used to display no of elements
  Syntax on
                  Array Name · length;
Example on (body)
                 < script type = 'tent/javascript'>
              vor my Array = ["html", "CIS", "JS", "HTML",
               "C$33"];
             document write ("Number of Array Element ore:"
              + My Asray · length );
               < 1 script )
             < 1 body>
             < head)

            function Mylen()
             Nor My Array = ["html", "CSS", "IS", "HTML5", "CSS3"];
         var x = document get Element By Id ("Arr");
            X. inner HTML = my Array. length;
           <1script>
            < Theads
            < body>
             < P id = "Arr"> Click the button to display the
        number of Array elements ... < 1P>
```

```
< button enclick.
 < body>
 Array object method.
          Array object supports following list of methods
Peresse (): Using this method we can display array elements in severse order. (last to first)
  Syntan: Assay Name. reverse ();
  Enample 13 < head)
             < script type = 'tent/javascript'>
        vor My Array = [ "html", "css", "Js", 'HTM15", "Css3"]
         document. write (my Array · reverse());
          < / script>
          < 1 head>
Example 2: {head}
             < script type = 'text / javascript'>
       vor My Asray = [" ntml", "ess", "Is", "HTML5", "css3"]
           function My Reverse()
              var my Array ["html",
             document. get Element By Id ("Rev");
           * inner MTML = My Array. severse (7)
            < ( script)
            < body>
```

Method 2: - Global variables.

< head)

< Script type = 'text / Javascript'>

YOU MY ARROY = ["HTML", "CSS", "JS", "HTML5", "CSS"];

function my Rev ()

. document. get Flement By Id

("rev"). inner HTML = myAstay reverse();

3

< 1 script>

< 1 heads

( body)

«P id = "rev" style = 'Color: blue; background color; yellow! Click the button to display Array
 Elements in reverse order ... < 1P>

L'button onclicle = "My Rev()"> My -Rev (1button)
< 1 body >

pop() or This method remove the last element of an array that means it remove array elements from right to left directions.

Eyntax 3~ Array. pop ();

Shift() in This method remove the array elements from left to right that means 1st to lost.

Syntan ? array, Shift ()

```
Example 1 :
 < head)
  < script type = 'tent /javoscript'>
  vor myArray = ["html", "CSS", "JS", "HTML5",
                      " CSS3"];
    function MyRem ()
       vor X = document.get-Element-ById ("zem")
       x. inner HTML = my Array. pop ();
         < 1 script>
         < / head)
         <body>
         Click the button to remove
 Array elements from right to Left ...!! <1P>
    button onclick = "My Rem ()" > Asray-Rem < / button)
    < 1 body >
Escample 2:
       NEXT
        < html>
        < head)
        < script type = 1 text/javoscript '>
          are = ['fish.jpg', 'fish 1.gif', 'nature.jpg', 
'nature 1.jpg', 'nature 2.pg']
         function fun 1()
```

```
i++
if (i==5)

alest ("No more images")

getse

clocument: get Element By Id ("img1"). src = "img/"
+ orr[i];

(Iswipt)

body

image sec = "img/fish. jpg" width = "300" height
= "250" id = "img 1";

br)

Input type = "button" value = "Nent" onelicka = "funt

(body)
```

Tava script boolean object: It is used to return a boolean value, that value is either zero or one. Here zero represents false I represents true.

Syntax: Creating a boolean object vor my Boolean = new Boolean

Boolean Object properties

```
Note 8. Except 1 remaining all values returns false.
Example 1
     < head>
      < script type = 'tent/javascript'>
       Nor b1 = new Boolean (0)
           bz = new Boolean (1)
           b3 = new Boolean ("")
                            (null)
                            (NaN);
   document. write ("o is boolean "+b) + " <br/> );
  document write (" 1 is boolean "+b2 + " (br/));
                 ("An empty string is boolean "+" < 571>")
              ("null is boolean" + 64 + " < 671>");
              . (" Nan is boolean" + b5 + " );
   </script>
   < 1 head.
 Example 2:
     (head)
     < scrip type = 'tent / javascript'>
     NOT b1 = new Boolean(0);
     document. write (b1);
     < 1 swipt>
     < Thead>
    Tava script - The Date Object
              It is a clata type, date objects ore
   created with new date, once the date object is
```

created we can able to access several properties of

methods. we can create the date of objects in

# following ways.

- 1. Norn = new Date ()
- 2. Narn = new Date (milliseconds);
- 3. varn = new Date (datestring);
- 4. Var n = new Date (year, month, day, hours, minute seconds, millise conds);

< I head>

Tavascript Date object methods or Once date object is created the following list of methods able to work on date pattern.

- 1. get Time () Number of miliseconds.
- 2. get Seconds () Number of seconds (0-59)
- 3. get Minutes () Number of minutes (0-59)
- 4. getHours() Number of hourse (0-23)
- 5. get Day () Day of the week (0-6). 0 = Sunday, 6 = Saturda
- 6. getDate() Day of the month (0-30)
- 7. get month() Number of month (0-11)
- 8. getfull year () The four digit year (1970-9999)

```
Example :-
< head>
< script type = 'text-/javascript'>
 vor dt = new Date();
 document write (dt. getfullyear ());
 < 1 script>
 < 1 head)
Example 2 3~
 < head>
 <soript type = 'text/javascript'>
  fundion my Year ()
  Nor dt = new Date();
  vor x = document , get Element By Id ("yz");
   x · inner HTML = dt · get Full Year ();
    <1script>
   < body>
     Click the button to display the full
    year .... <1P>
    </body>
 Write a script to display the current date month in
    mm / dd / year format-
```

Apr style = 'color : blue'> Current Date is :

eg & (body)

< Script >

Vor current Time = new Date()

Yor month = current Time get Month() +1

Yor day = current Time get Date()...

Yor year = Current Time get Full Year()

document write (month + "/" + day + "/" + year)

< 1 script >

< 1 body>

 $\mathbb{R}^{N_{\mathrm{total}}} = \mathbb{R}^{N_{\mathrm{total}}} = \mathbb{R}^{N_{\mathrm{total}}}$ 

•

entropy of the second of the s

entre de la companya de la companya

Write a script to display the timestamp.

```
* Date Object set method.
        Date object supports all the set method.
1] Set Date () Method -
         This method set the day of the month to the
date object
 Syntan: Date set Date (day)
 Example In
      < head>
      < script type = 'tent/javascript'>
       function my function ()
         vor d = new Date ();
         deset Date (17);
        Nor 2 = clocument, get Element By Id (" demo");
         x, inner HTML = d;
          < Isoupt)
          (/head)
          < body)
         / id = "demo" > Click the button to display the
          date ofter changing the day of the month (IP)
         < button onclick = "my function ()" > Display - set Date
         < [button>
         < 1 body)
```

Date Object timing Events on In javoscript it is possible to execute a specific que code at the specifical time intervals.

The following methods are frequently used.

1. setInterval() - It executes the functions, over and over again, at specified time intervals.

Syntam - window, setInterval (" javoscript function", milliseconds);

Enample -

< head>

The contract of the contract o

< script type = 'text / javascript'>
function myInter()
{

SetInterval (function() { alert ("Welcome to Events")}, 3000);

ž

</script>

< 1 head>

< body>

2] Set Timeout () - Enecutes a function, once, after waiting a Specified number of milliseconds.

window. set Timeout ("javascript function",
milliseconds);

```
Example on
 < head>
 < script type = 'text / javascript'>
 fundson . TDelay ()
     winden: Locabion = "http:// www.seshajobs.com";
   < (script)
    ( I head)
    < body onload = " set Timeout ('TDelay()', 5000)'>
    < P> Refresh the page to load the related
     URL ... < 1P>
     <P>> once You refresh it takes a few seconds. <P>
     < 1 body>
Write a Script to désplay digital clock on webpage.
   < head>
   (script)
   set Interval ("fun L()", 1000);
    function fun (1)
      vor d = new Date
      Str = d. get Hours () + ":" + d. get minutes() + ":" + d.
         get Beconds () document. get Element By Id ('spt).
           innevHTML = str;
    Š </surîpt>
      </head)
      < body >
                  "spI" style = " color : Eld; font -size:30">
      <span id=
       <1 body>
```

\* Javascript string object. This object is used to work, with piece of text. String objects ore created with the help of new string.

Syntam &

Vor tnt = new string ("string");

or more simply:

vor tnt = "string";

String object supports the following list of properties.

length property: It seturns the length of string in characters.

Syntan: string. length

Example & with function

<head)
< script type = 'text / javascript'>
function mylen()
{

```
Nos ste = " Nosesh i Technology "'s
 Vor X = document, get Element By Id ("In");
  X. innerHTML = Str. Length;
</script>
 < 1 head>
 < body>
 <P> Click the button to display the length of
  the string is: "</P>
 < button onclick = " Mylen ()" > Clickme <1 button>
 < 1body>
string object methods
String object supports the following list of
methods.
     to Upper Case ()
 13
     to lower Case()
 2]
 3]
     charAt ()
     match ()
 4]
     etc ....
  to Upper Cose ()
         This method is used to display the given
  string in capital letters.
```

Str. to Upper Case ()

The second of th

2] tolower (ase ()

This method is used to display a given string in Lowercase character.

Syntan 3 Str. to Lower Case ();

<body >
 <br/>
 <br/>

\* Tavascript Math Object in This object allows you to perform mathematical tosks. The Math Objects supports several properties of the methods

Tava script PI property or The PI property returns the radio of a circle's orea to the square of its radio approximately 3.14.

Syntax & Math.PI

```
< body>
< script type = 'text / javoscript'>
document weite (math PI);
  < 1 script>
  < 1 body>
PI property must be in upper case.
Eig = with function.
    < body)
    < script type = 'text / javascript'>
     function mypralue()
      document, get Element By Id ("P"). inner HTML = Math, PI;
      </script>
      < 1 head)
      < body>
      < P id = " py" > click the button to display the PI
      Value ···· < 1P>
      <button onelick = "MyPralue()"> Clickme</button
        <1body>
```

The second secon

\* Java script number Objects: This object is used to work with primitive numeric values.

Vor num = new Number (value);

Number object properties.

Property MAX\_VALUE

Description Returns the largest number possible in Tavascript

MIN \_VALUE

Returns the smallest number possible in Is.

Nan

Represents a "Not-a-Number" value

Tava Script Regemp Object in It describes a patterns of characters, simple patterns can be single character, complicated pattern can be consists of more character.

Syntan 3~

Nor patt = new RegExp (pattern; modifiers);
or more simply:
Nor patt = 1 pattern/modifiers;

& Brackets

These are used to find the range of Characters.

The following table describes the number of few characters.

Expression	
[abc]	Fi b.
[ Tabe ]	Fir

#### Description.

find any character between the brackets.

find any character not between the brackets.

Find any digit from 0 to 9 Find any digit from & typercase A to uppercase 2.

## \* Quantifiers.

[0-9]

[A-2]

### Quantifiers

#### Descriptions

n+	Matches any string that containly at least one n
かや	Matches any string that contains
n ?	zero or more n's Matches any string that contains zero or one n.

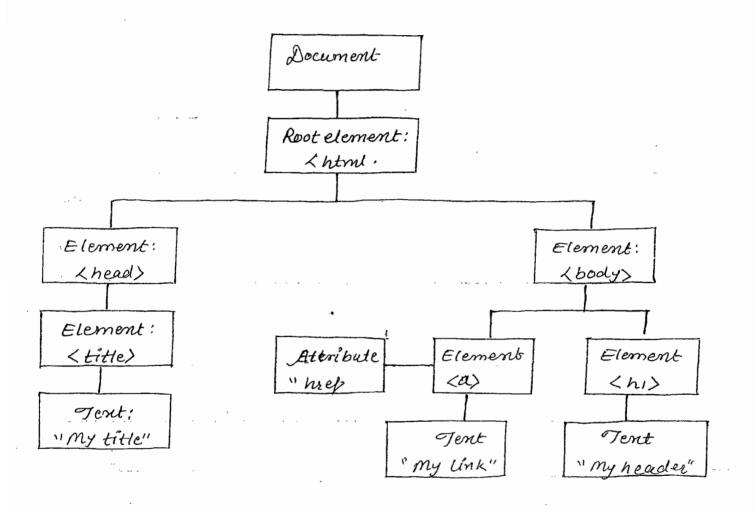
\* Metachoraeters A metachoraeter is simply an alphabetical choraeter preceded by a backslash.

Character	Description
•	a single charaeter
. 1s	a whitespace character (space)
\ <i>S</i>	non-whitespace character
$\backslash \alpha$	a dígit (0-9)
12	a non digit
\ W	a word character (a-z, A-z, o-g, -)
$\backslash W$	a new word character

What is HTML "DOM" (Document Object Modes)

Dom is an platform and language nutral interface that allows the programs of scripts to dynamically access of update the content structure and style of the document.

Dom has the following detailed skucture.



The above structure represents as follows.

- 1. The entire document is a document node.
- 2. Entry HTML element is an element node
- 3. The text inside HTML elements are text node.
- 4. Every HTML attribute is an attribute node

5,

Event button: It indicates which mouse butten cause the event

Syntan: event button

N3C its values should be or
Left button -0
Middle button -1
Right button -2.

According to onicrosoft values should be so Left button -1 Middle button - 4 Right button - 2

Example

```
if (event. button = = 2)

{
    alert ("You clicked the eight mouse button!");
    }

{    //script >

    Linead >

    Click Here Observe ... | < IP >

    (I body >
```

Inner HTML property & The inner HTML property & wed along with get Element by Id within your Javascript Code to Eefer to an HTML element and change its centents.

Syntax &~

Clocument get Element By Id (' { TD of element }').

Inner HTML = ' { content 3';

Containers or Elements can hold other html
- Elements / Centrals

Example g. Div, p, Table, Span ...!

Non Containers & Elements can hold only text can not hold html Controls / Elements

Example on Text box, Button, Radio, Textarea ...

```
Note 3 All containers ore paired tag, But all paired tags are not containers (containers having inner html property, non containers having value property.

Example 3.
```

```
< head>
      < script type = 'text / javascript'>
       function Myterete
         vor Value = document. get Element By Id ('txt1').
        value;
          alert ("The Values is: "+ value);
         < 1script>
         < 1 head>
         < body>
          click the button to display the text from
        a tent bon boseel on value property ... < IP)
         < Input type = 1 text value = " javascript " id=
         "trut 1"> (br/)
       < button onelick = "mytent ()"> Clickme < 1 button>
        < body)
Example 2.
       < head)
      fun
        var value = document. get Esement By Id ('P1).
            Inner HTML; alert ("The Values is; "+ Value);
```

Working with Javascript Validation in

Tavascript can be used to validate the data in HTML forms before sending of the contains to a server.

Tavascript form validation is provide a method to cheek a user entered information before click on submite.

form validation generally perform in the following two ways.

17 Basie Validation

< 1 body>

- 2] Data formate validation
- Desir Validabion & The form must be Cheeked to make sure data was entered into each form field that required it. This would need just loop through each field in the form and check for data.

```
(2)
            The data that is entered must be checked
  for correct form and value. This would need to
  put more logie to test correctness of data.
 Validating Text Box on
      From validate
      (head)
      < script type = 'text / javascript'>
       function not Empty()
          Nor my Tent field = document, get Element By Id
         ('my Text');
         If (my Tentfield, value, !=!" ")
           alert ("You entered: " + my Textfield value)
           else
            alert " would you please enter some text?")
            < /script>
            < (head)
            < body)
            <input type = 'text' id = 'ony Text' /> <br/>
            < input type = 'button' onclick = 'not Empty()'
```

Value = ! Form Validate' 1)

</body)

```
Validating Tent-Box with border color gu
 UserName:
  Password:
    < head}
    < script type = 'text / javascript')
     function function (len, cid)
        17 (len<6)
         document get Element By Id (cld) . style. border
        cotor = "red"
       else
       document. get Flement By Id
       (Cid) · style · border Color = "silver"
       <1soupt>1
       </head>
       < body>
Username: < input type = "text" id = "txt 1"
   onblur = "funchklen (this . value. length, 'txt 1')")
Password: < input type = "password" id = "tretz"
 onblur = " funchklen (this value length, 'tht 2')">
   < 1 body >
```

```
Validating Radio Buttons &
    You ore?
                  o female
    o male
    submit
   < head>
    < script type = "text / javascript">
    function validate() {
     vor VI = document , get Flement By Id ('male').
        Checked;
   nor re = document get Element By Id ('female').
  checked;
   、 ゆ ((アノ=="") チチ (ア2=="")) {
   alert ("select either Male or Female");
 return false;
   return true;
</script>
```

</h

```
Click
< head>
< script type = 'text / javascript'>
function fun 11)
  if (document, get Element By Id ('un'). value, lengt
 = 6 & f document . get Element By Id ('PW'). value.
length >=6)
  document · get Element By Id ('but 1') · disabled = fals.
3 else
 document. get Element By Id ('but 1'). clisabled = true
<18021Pt7
(head)
< body>
< input type = 'text' id = 'cen' onblus = 'fun(1)')
 <_br>>
  < input type = 'password' id = 'pw' onblus = 'fun 1()'>
  < input type = "button" value = " click" id = "but 1"
   disableds
   <160dy>
```

1+0266

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http://www.javascriptkit.com http://www.webplatform.org.