HTML : Hypertext Markup Lang.

Level of comp. lang.

1. Low Level / Machine Lang. ⇒ Binary = 0/1
2. Middle Level / Assembly Lang.
3. High Level Lang.

→ develop an O.S, eg: windows

→ written in english code, thus contains assembler to translate english code in binary (mach lang) used to develop an O.S

→ written in english, contains compiler & interpriter to translate english code in binary, mean machine lang, used to develop an application software eg. website.

Too many web pages ← make ← HTML
⇓
1 website

HTML = Markup lang.
⇓
content ko website pe tags ki help se ठीक तरीके दिखाते हैं
∵ markup means ठीक तरीके से लगाना।

⇓
Ghera lagana
⇓
use tags & attributes to structure & define the content of a webpage.
⇓
Text, Audio/video

Tag use: ① website pe content दिखाने के लिए
② website pe kon sa content kharha dikhega.

Tag ?

Text : body
Tag : <body>

Text : html
Tag : <html>

Angle bracket से घिरा hua Text.

opening Tag

Tag start with <html> and end with </html>

closing Tag

~~<html~~ wrong

~~html>~~ wrong

closing Tag

जिसे Tag को start kara hai usse end bhi krna hoga.

New Tab : 1 web page = Tittle

This whole big page = 1 web page = HTML's body

open Notepad

```
<html>

  To show content
  write within it

</html>
```

hjhjh ⇒ if write after ending Tag.
will not show

⇒ Bad coding

HTML code on Notepad
to create Google interface (+New Tab)

```
<html>
<Tittle>
Harsh Tab
</Tittle>
<Body>
Welcome to the Harsh Tab*
</Body>
</html>
```

Now save this file
Jab first time file ko save
kre hai tho (save as) & (save)
both do same work.

desktop
~~html~~
~~Harsh~~ file name
Harsh
Harsh.html

if not do this
for indicating
we are
making
web page.
If we do not
apply this then
this will
indicate
normal
Text file

HTML Versions & Element

HTML developed by
⇓
Team Berner-Lee in 1991

Versions	Year
HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML 5	2014

} most popular

<Starting Tag>
Contents
</Ending Tag>
⇒ HTML Element

HTML code in HTML4.01
⇓
Same as last

But there was only 80% tags
20% tags: Head tags ⇒ isko title tag rakho head tag ke andar
⇓
why?
we will learn in future.

```
<Head>
<title>
<5
</title>
</Head>
```

HTML

```
<html>
<head>
<title>
Harsh new tab
</title>
</head>
<body>
Harsh Jha
</body>
</html>
```

Jo [Harsh Jha] Body ke content ko centre me show kiya hai

use ⇒ <centre> Tag

```
<html>
<head>
<title>
Harsh new tab
</title>
</head>
<body>
<centre>
Harsh Jha
</centre>
</body>
</html>
```

Ab Body ke content ko Bold krna ho tho

use

<b> Tag

```
<html>
<head>
<title>
Harsh new Tab
</title>
</head>
<body>
<Centre>
<b>
Harsh Jha
</b>
</Centre>
</body>
</html>
```

~~# Agr bas body ka kuch specific part b~~

Agr bas body ke content ka kuch specific part bold karna hai tho

⇓

use

```
<html>
<head>
<title>
Harsh new tab
</title>
</head>
<body>
<centre>
Harsh <b> Jha </b>
</centre>
</body>
</html>
```

HTML Doctype & Typography Tags

Doctype Declarations

→ This is comment
→ Tells in which version of HTML coding is done.

→ Tell our web server that we are coding in HTML.

Types of Doctype Declaration

1. HTML 4.01
2. XHTML
3. HTML 5

→ Syntax

<!DOCTYPE html>
or
<!doctype html>

→ Complex Syntax

This use syntax of HTML5 in HTML4.01

If you do the doctype declaration in html 5 version then you can take advantage of all features of HTML4 and XHTML.

HTML 4 basic structure in HTML5

Doctype declaration.

```
<!doctype html> => This is comment
<html>                Not Tag.
<head>                (!) indicate
<title>               that is
Harsh new tab         comment
</title>              And
</head>               tag me
<body>                space nhi
<Centre>              aata.
Harsh Jha
</Centre>
</body>
</html>
```

Typography Tags

① Heading text tags.

```
<h1> body content </h1>
<h2> body content </h2>      Size
<h3>              </h3>      Bade se
<h4>              </h4>      chota hota
<h5>              </h5>      chala
<h6>              </h6>      Jayega.
```

for getting paragraph in microsoft word

↓

~~*randomly (1)~~
* rand (1)

② Paragraph text Tags.

 body content

③ Centered text tags

<centre> Centre content write here </Centre>

eg

```
<center>
<p> Any Para </p>
</center>
```

④ Moving text tags

<marquee> moving content write here </marquee>

eg:

```
<body>
<center>
<marquee>
<h1> heading </h1>
</marquee>
</center>
<center>
<p> Para </p>
</center>
</body>
```

Un tag ko close kara jata hai jisme kuch content likha jo sake

Empty Element Tag

<hr>

Need not to close that tag

use to draw a line

```
<!doctype html>
<html>
<head>
<title>
Harsh
</title>
</head>
<body>
<h1>
<Center>
Welcome harsh
</center>
</h1>
<hr>
</body>
</html>
```

output

Welcome harsh (in bold)

```
<!doctype html>
<html>
<head>
<title>
Harsh tab
</title>
</head>
<body>
<h1>
<center>
welcome harshi
</center>
</h1>
<br>
<p>
Hope you are doing well. I want you
to study hard. You have to get
big placement - sorry biggest.
</p>
</body>
</html>
```

We do not break in body
Because
html do not accept keyboard formating

But we have Tag in HTML ⇓ <pre> instead of <p> ⇒ will read & accept Tab.

⇓ means keyboard mé kitna ki space de do, html will not accept.

```
<!doctype html>
<html>
<head>
<title>
Harsh new tab
</title>
</head>
<body>
<h1>
<center>
welcome harsh
</center>
</h1>
<hr>
<pre>
Hellow harsh, hope u are doing good,
i want you to study hard &
earn/get placement of
atleast 1 corer.
</pre>
</body>
</html>
```

Pre Formatting Tag

In this, when dead end occur last word in line, then notepad editor, me line ko next line me convert krta hai.

Ya me disable ⇓ ek line me ki para dikhega in notepad

e { notepad me wordwrap ka option enable hai.

If we want funtionality of <pre> Tag but do not want to use <pre> Tag, instead use <p> Tag.

⇓

[<break> Tag]

⇓

 → empty element Tag.

eg:

<P> STI stands for Software Prog. compute.

 STI stand for Software Prog compute
STI stand for Software Prog comp.

<P>
bold

 italic

 underline
</P>

To show this.

⇓

<P>
 bold

 italic

 <u> underline </u>
</P>

 Science

output
Science

STP. comp. education

STP comp. educ.

STP compedu

STP compedu

STPcomed

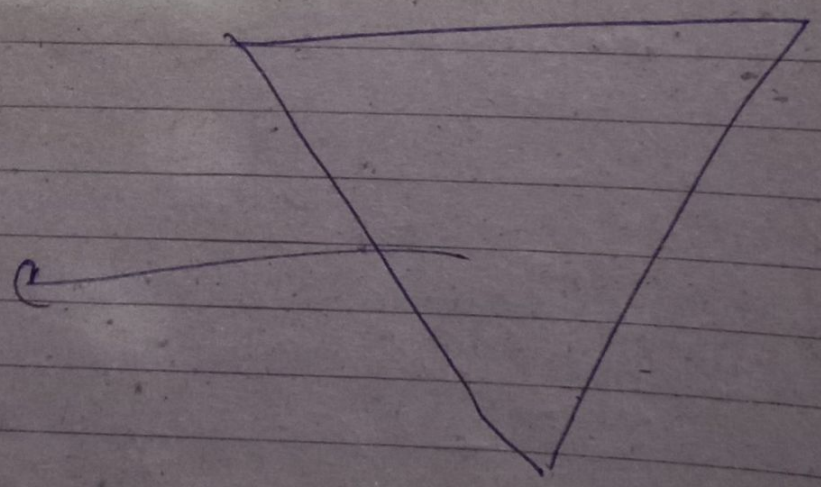
SCE

I am the student of STP comp. education.

WELCOME TO MY PLACE.

I am in left

I am in right



```
<!doctype html>
<html>
<head>
<title>
STP
</title>
</head>
<body>
<Center>
<h1>
<b>
STP computer Education
</b>
</h1>
</Center>
<hr>
<center>
<h2>
<b>
STP computer Education
</b>
</h2>
</center>
<h3>
<center>
<b>
STP computer Education
</b>
</center>
</h3>
<hr>
<h4>
<center>
<b>
STP computer Educati
</b>
</center>
</h4>
<hr>
<h5>
<Center>
<b>
STP computer Educati
</b>
</Center>
</h5>
<hr>
<h6>
<Center>
<b>
STP computer Educati
</b>
</Center>
</h6>
<hr>
<p>
I am the student
of STP computer scienc
</p>
<hr>
```

```
<Center>
<b>
Welcome to my place
</b>
</Center>
<hr>
<Pre> I am in left


I am in right</Pre>
</body>
<html>
```

Date
Page No.

Formatting Tags

<b>, <i>, <u>

And

 = Define emphasized text

Just like italic tag

New design.

<sub> = Define subscript text

H_2O = H_2O

H₂O

<sup> = Define superscript text

$a^2 + b^2 = a^2 + b^2$

a² + b²

<Strong> = Define strong text

⇓

Bold
Jus like
B <b> tag

<Small> = Define Small Tag

<small>PROGRAMMING</small>

⇓

PROGRAMMING → size chota

<mark> = Define highlighted text

⇓

background me yellow colour

eg. <mark> Education </mark>

⇓

Education

⇓

Yellow highlighted

HTML Attributes

⇓

⇒ way to Optimize the features of tag.

⇒ Always use in Opening Tag.

⇒ All HTML Element have attributes.

Eg: <tag attributename = "value">
</tag>

	Attributes	value
Tag	size	"5"
font	color	"red"
	face	search font style using notepad → Format

.jpg

```
<!doctype html>
<html>
<head>
<title>
Home
</title>
</head>
<body bgcolor = "blue" background="sip.jpg">
<h1> welcome </h1>
</body>
</html>
```

```
<body text = "yellow">
```

Tag Name	Attributes	Value
<body>	bgcolor	"any colour"
	background	"image.jpg"
	text	"Any colour"
***	Link	"green"

<h1 align = "center">

<h1 align = "left">

<h1 align = "Right">

<h1 title = "write any thing">

⇓

will not show on screen, but when we go on heading using cursor then we will see that word.

⇓

Toolpit

Tag Name	Attributes	value
<h1> to <h6>	align	"left", "right", "center"
	title	"any text"

Tag	Attribute	Value
<hr>	color	"red"
	width	"50%" "20" → pixel
	size	"20"
	align	"left", "right", "center"

Tag	Attribute	Value
<marquee>	direction	"right", "left", "up", "down
	bgcolor	"any color"
	behavior	"Scroll", "Alternate"
	Scrollamount	"50%", "20"

HTML graphics coding & editing with Photoshop

Date
Page No.

Our screen resolution?
⇓
Display Resolution
My: 1920 X 1080
⇓ width ⇓ Hight

iss size ka photo banaro using photoshop

Download Notepad++
⇓
To ↑↑ size of text in notepad++
⇓
ctrl++...

```
<Pre>
<font size="10" color="red" face="sans-serif">
<h1>
THANK YOU
</h1>
</font>
</Pre>
<Pre><font size="6" face="sans-serif"
colour="green">
In a beautiful flower</font></Pre>
<Pre><font size="44" color="grey" face="cambria">
<I> ⟶ </I></font></Pre>
```

Candara

The rose

HTML Live Project

STP Media.com

Project 2 stpmedia.com

open Notepad++

<body background="images/background.jpg>

download : Spantaran - GRE 2D

<Font size="7" face="Spantaran" color="dodgerblue">STP</Font>
<Font size="7" face="Spantaran" color="deppink">MEDIA</Font>

<P> Get a multimedia as your wish</P>

<Font face=ubantu>

empty element tag.

width : 70
height : 60
Res : 300

RGB color & 8 bit transparent

<Img> = image Tag

src = source attribute → location.

1042834496 066961

Date
Page No.

< img > ⇒ Tag

↳ Attribute

① width : "50%"

② SRC : source

③ Height : "60" pixel

④ border : "10" pixel

< field set >
</ field set >
} → Make box
↓
can add any image.

isse andar ek aur tag hota hai Jo design banane me kafi help krta hai
↓
< legend >
</ legend >

< field set >
< legend > latest images
</ legend >
</ field set >

Date
Page No.

Images

width = 180 pix

height = 220 pix

images / paintings / a.jpg

videos

<a href = ~~images~~ / i.mpg

b/f

~~c/h~~

~~d/d~~

~~e/g~~

~~f/b~~

g/e

h/a

a/c

1 → Swan ✓

2 → Sam ✓

3 → Face ✓

4 → Adeel ✓

"art/ .jpg"

<a href="/ /">< img src="reference/ .jpg

4 → Adeel ✓

5 → Isha ✓

6 → Shiv Shankar ✓

Pushpa 2 ✓

Ganesh Ji ✓

Maa Durga ✓

Maa Kali ✓

Shiv Ji & Nandi ✓

Me ✓

Ravana ✓

Mandira ✓

Girl ✓

Krishna ✓

Ishan ✓

<a href="videos/ h.mp4"> < img src="

HTML Advanced Multime with Plug-ins

<audio src="songs/a.mp3"></audio>

⇓

Abhi audio nhi show hoga

⇓

To show audio

⇓

1 more attribute

⇓

Controls

<audio src="songs/a.mp3" controls="controls">
</audio>

Tag	Attribute	Value
Audio	src	"location"
	controls	"controls"
	autoplay	"autoplay"
	muted	"muted"

isko active krne ke liye hame "Tab" change karna hoga.

Tag	Attribute	Value
<img>	src	"location"
	width	"720"
	height	"480"
	alt	"imagename"
	~~boorder~~ border	1, 2, 3, 4

Tag	Attributes	Value
<video>	Src	"location"
	* controls	"Controls"
	autoplay	"autoplay"
	muted	"muted"
	Height	"480"
	width	"720"

has to close it

Tag	Attribute	value
<object>	data	"filename.ext
	width	"720"
	height	"480"

similar to <embed>

① use data instead src

③ has to close

<object> → ④ Take less loading Time

② can load in any browser.

<embed> → Just opposite

Plug-ins ?

⇓

what ?

⇓

Tag

⇓

external files ko web page me insert krne ka kaam karta hai

⇓

empty element tag

<embed>, <object>

vlc ← video/audio

Tag	Attribute	Value
<embed>	src	"f.pdf"
	width	"500"
	height	"500"

HTML LIST

List are the way to display contents in → format

bullets : •, ■, O

Numbering : 1, 2, 3 : ABC : i ii
abcd

Two Types of List

Unordered List

• ■ O

```
<ul>
    <li>Harsh</li>
    <li>Jha</li>
</ul>
```

Attribute

type - "circle", "square", "disk"

Ordered List

1 2 3, ABC, i ii iii iv,
a b c d

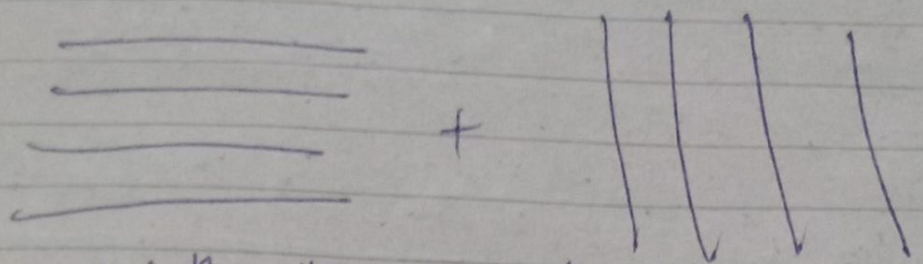
```
<ol>
    <li>Harsh</li>
    <li>Jha</li>
</ol>
```

Attribute

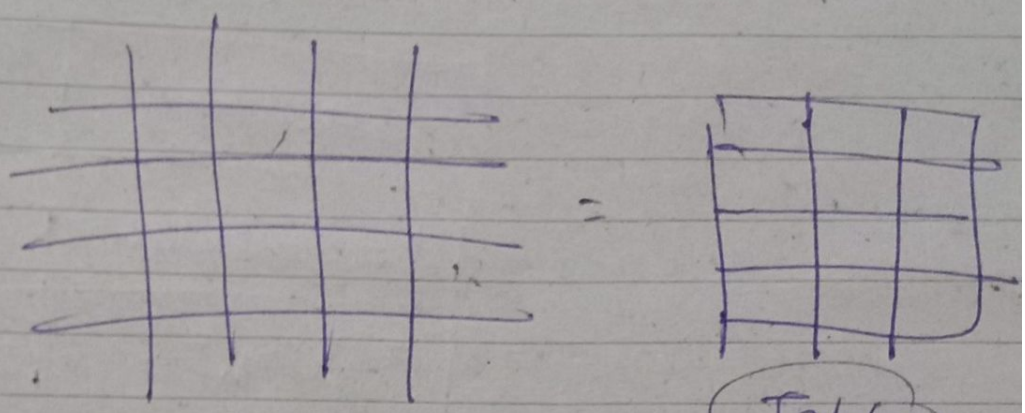
type - "a", "A", "i"
start - "8"

सबसे पहले Row kyu banate hai in making Table?

HTML Table Tag



<table width="500" height="200" border="1">



Table

Each <td> is a cell inside a row, not a column on its own.

Represent cell containing data

allows you to create a webpage layout in html language.

tr = table row

td = table data

<table> </table> = start table coding

<tr> </tr> = To create rows

<td> </td> = To create cells which contain data

<th> </th> = To create headings for columns

<caption> </caption> = To define table name

Tag	Attributes	value
<table>	width	"500"
	height	"600"
	border	"1"
	bordercolor	"red"
	"align"	"left", "center", "right"
	bgcolor	"skyblue"
	cellspacing	"20"

HTML Table First Project

⇓

Idea to promote a business to your client

Project Preparation

① Project clearification

⇓

Client

Applicable → Knows about web dev.

Non Applicable → does not know about web dev.

Types of Project.

① Branding & informational Project

② Ecommerce project

⇓

Items sell

③ erp project → comp. software ✓, website ✗

⇓

clg/school management जैसे पूरे के हिसाब को maintaine krne ke liye.

④ Point of sale

⇓

desktop application

⑤ static project

⇓

mobile application.

content writing.

① Headers
→ Brand name & logo
→ Tag lines
→ Domain name
→ Address
→ Contacts
→ Promotional links
→ Offers.

② categories info with sub web page

③ Section
write info.

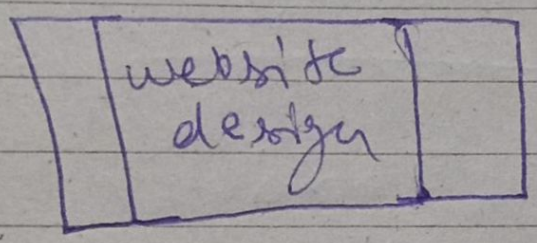
④ Footer
→ manual contacts.
→ developers info

UI designing

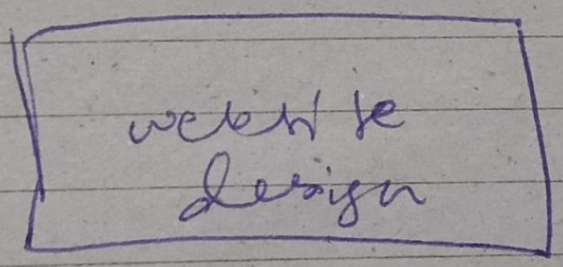
Software for UI design
→ Adobe Photoshop
→ Adobe illustrator
→ corel Draw

UI Types of website

① Potrait mode design



② landscap



American national standards Institute

ANSI ne diya

UI design principals for HTML

① dots per inch (dpi) resolution

portrait	landscap
768 x 1024	1336 x 768
1280 x 800	1920 x 1080
1024 x 768	1600 x 900

② soft layer graphics
↳ image quality should low/normal
↳ otherwise website won't open

③ sensi eye effective colors
↳ light colors use
↳ otherwise ~~eye~~ affect eyes

Flower Shop website

20/04/

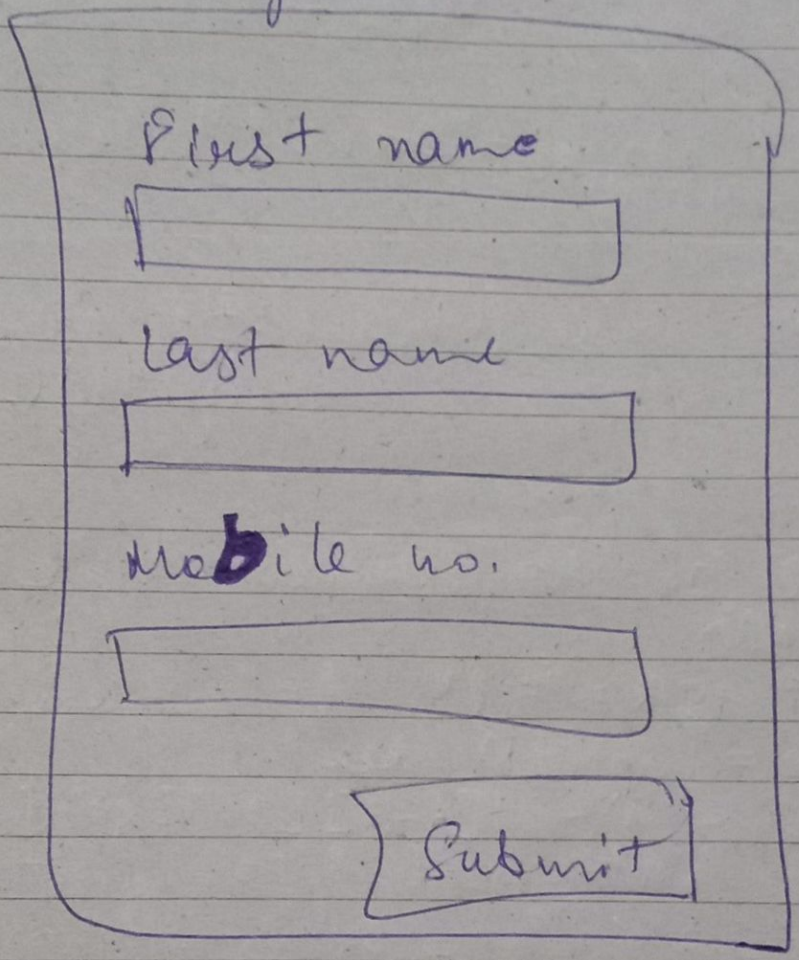
Date
Page No.

for bg : 1024 x 768

for logo : 150 x 150

HTML FORM

Html forms are the way to get any information from user on your web server.



<form> </form>

<input> (Empty element tag)

↳ use to form boxes

attribute → attribute

↳ type="text"

type="number"

↳ name="First name"

="last name"

"mobile no."

```
<label for="studentName">Student Name:
</label>
<input type="text" name="studentName
id="studentName" pattern="[A-Za-z\s]+"
title="Only alphabets allowed" requi
<input type="submit" value="subm
```

HTML code (India: +91 only & 10 digits)

```
<label for="mobileNumber">Mobile Number:
</label>
<input type="tel" id="mobilenumber"
name="mobileNumber"
pattern="^\+91[6-9][0-9]{9}$"
title="Enter valid 10 digit mobile
number with +91, eg +9187654321 04
required>

<input type="submit" value="Submit">
```

for other countries

```
pattern="^\+[0-9]{1,3}[0-9]{10}$"
```

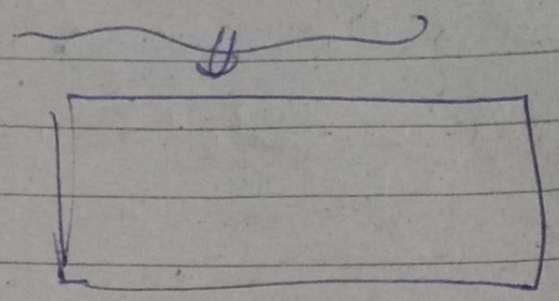
```
<label for="countrycode">Country code:</br>
</label>
```

~~<select id="countrycode">countrycode:~~
~~
~~
~~</label>~~

```
<select id="countrycode"
name="countrycode" required>
<option value="+91">IN Indian(+
</option>

<!-- Add more as needed -->
</select>
```

<textarea></textarea>



Big box use for Taking more information.
like address.

Attribute	Value
type	text, password, date, search, number, radio, checkbox, button, submit, color, email, website, file, hidden, image, tel, week, month, range.

Placeholder attribute

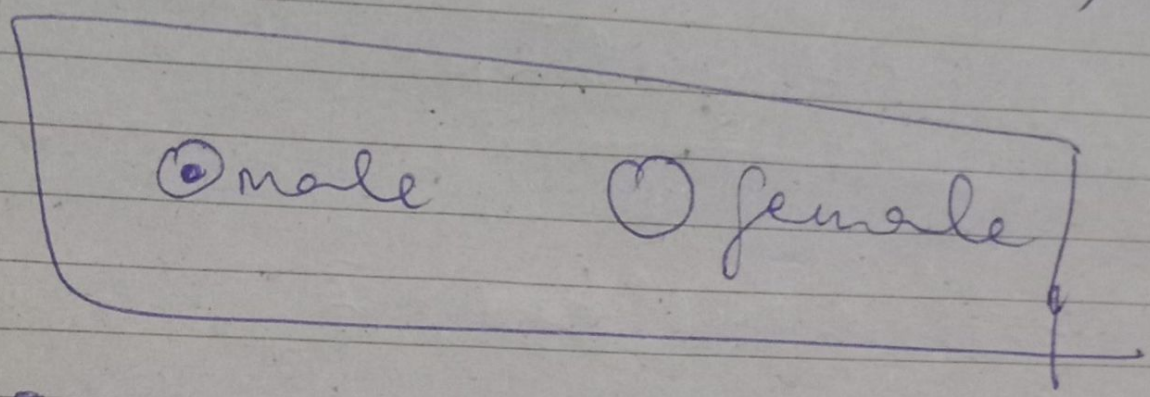
Search frames

Attributes of <input> tag.

Attributes	Values.
type	text, password, date, search, number, radio, checkbox, button, submit, color, email, website, file, hidden, image, reset, tel, week, month, range
name	Content name
placeholder	insert any text for watermark
size	30
value	Use in special case
max, maxlength	12
required	require

Radio button

<input type="radio" :->



To make dropdown box

course
<select name="course" value="course">
~~<option>ADWD</option>~~

<option value="ADWD">ADWD</option>

HTML ENTITY

characters that are not present on your keyboard

⇓

Entity

⇓

Can be inserted in web page

~~<body>~~
~~<ham>~~
~~</body~~

Not write

~~<body>~~
~~<h1> <ham></h1>~~
~~</body~~

Not write.

Use entity

Symbol	Description	Entity Name	Entity Number
	Non breaking space		
<	less than	&lt	&#60
>	greater than	&gt	&#62
&	ampersand	&amp	&#38
©	copyright	&copy	&#169

Not work in every device.

Work in all device