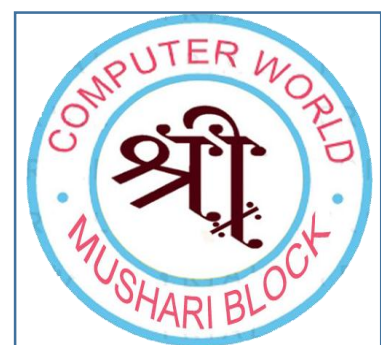




- For learn Web-designing we have to learn several these types of coding as: -
- Hyper Text Markup Language (HTML)
- Cascading Style Sheet (CSS)
- JavaScript (JS)
- JQUERY.



Now we start HTML:- With kumod sir

# HTML (HYPER TEXT MARKUP LANGUAGE)

*HTML is a markup language that means <start with> </end with>.*

*HTML not a programming language.it is mainly used for create web pages.*

*HTML result shows on web browsers. Such as Google chrome, Firefox, internet explorer. HTML code write on any text editor software such as notepad, notepad++, edit++, and save it .html extension such as (abc.html) and run it on browser.*

*HTML developed by Tim Berners Lee. They are also founder of www. (W3C)*



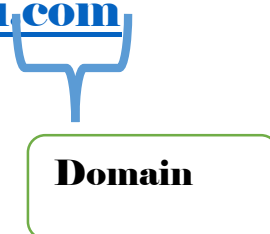
*First of all we define here some basic Topic:-*

What is Website?

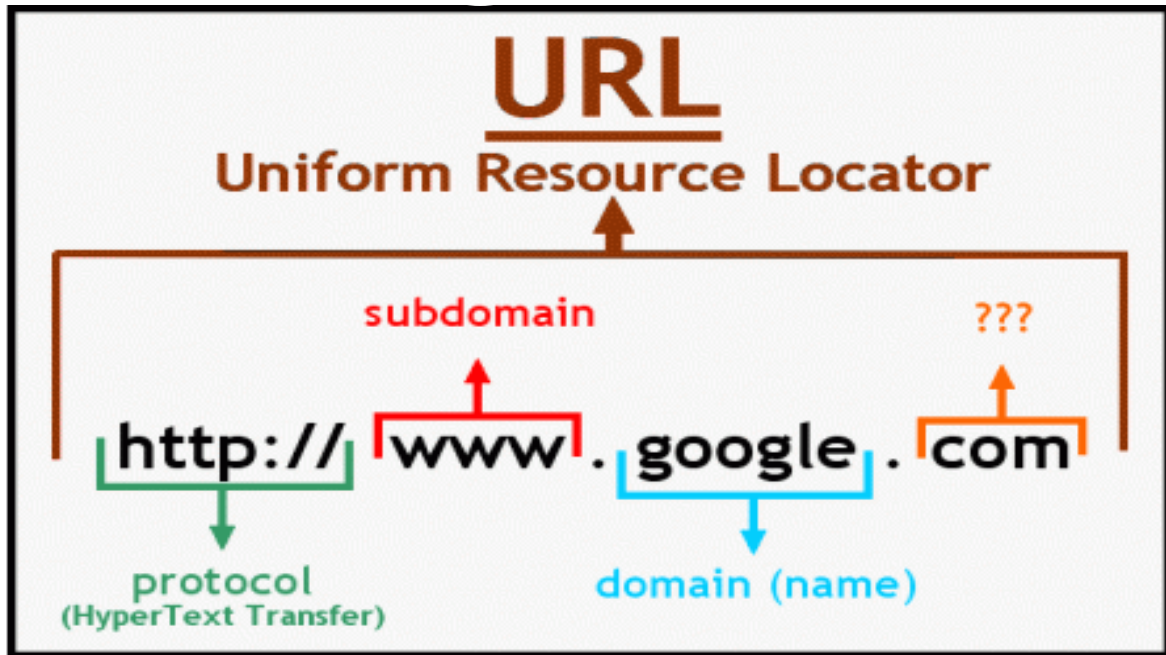
Website is collection of web-pages. Web-pages: Includes Index, Home, about, gallery and many more.

**What is domain?**

[www.computerworldmushahari.com](http://www.computerworldmushahari.com)

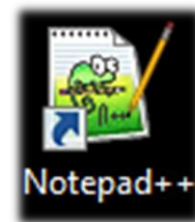


# What is URL?



Open any text editor application:-

I am using notepad++. you can use any application



C:\Users\Wk\Desktop\44.html - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

1 <title>computer world & study center</title>

Save As

Desktop

File name: index.htm

Save as type: All Files (\*.\*)

Encoding: UTF-8

Save Cancel

Hyper Text Markup Language file length : 44 lines : 1 Ln : 1 Col : 45 Sel : 0 | 0 Dos\Windows UTF-8 w/o BOM INS

8:14 PM 3/23/2018

Click on Run menu choose option with launch.

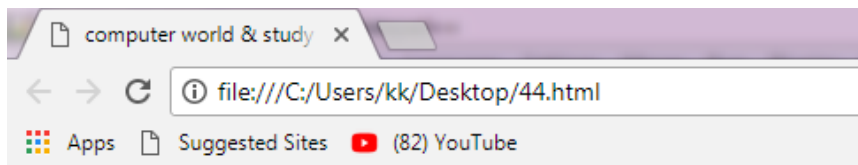
# <Title> computer world</title>

TAG

Text (that is display in browser)

Close tag

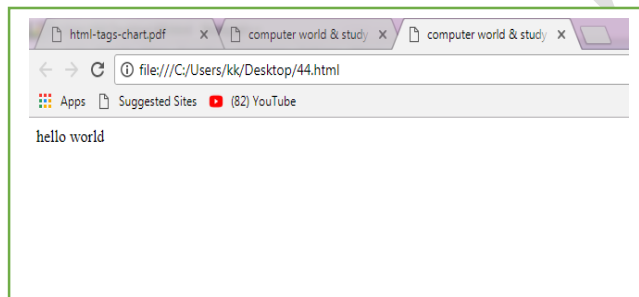
Result



Heading tag.

<head> this tag is open tag.

<head>hello world</head>



H1.. <h1> computer world</h1>

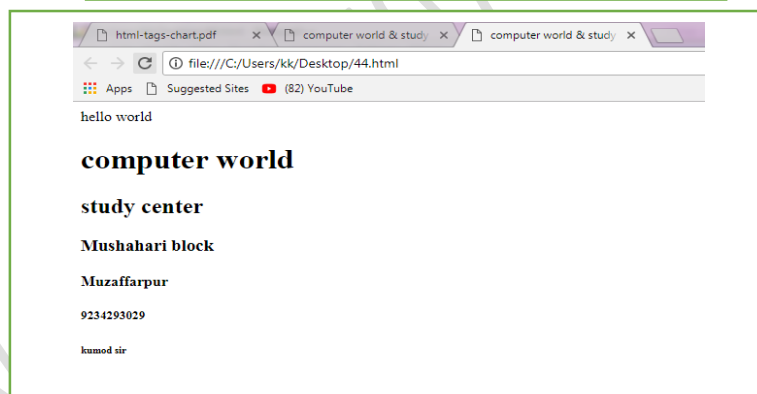
H2.. <h2>study center</h2>

H3.. <h3>Mushahari block</h3>

H4 ..<h4>Muzaffarpur</h4>

H5.. <h5>9234293029</h5>

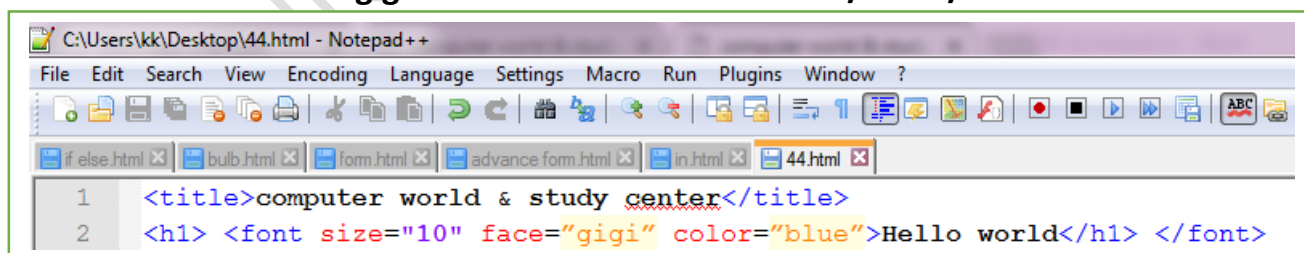
H6 ..<h6>kumod sir</h6>



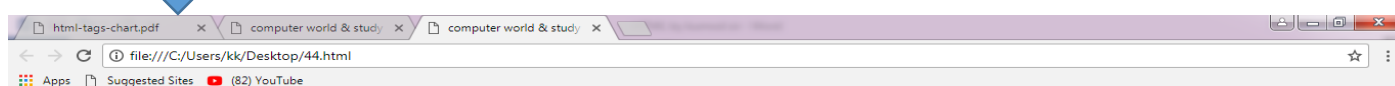
<Font tag>

You can change font color, font face (style), font size.

<h1> <font size="10" face="gigi" color="blue">Hello world</h1> </font>



Result

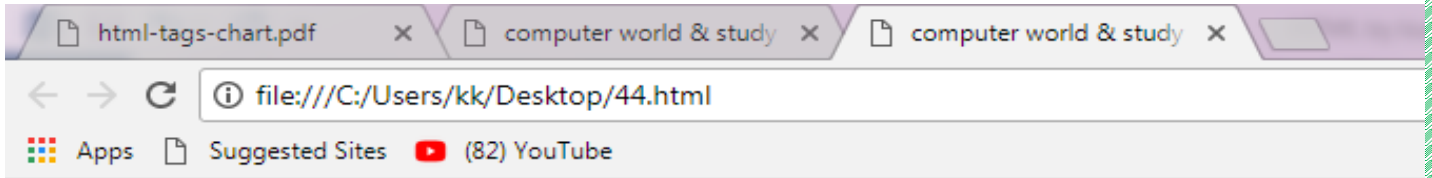


Hello world

Bold tag<b>, underline tag <u>, italic tag<i>

```
C:\Users\kk\Desktop\44.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
if else.html x bulb.html x form.html x advance form.html x in.html x 44.html x
1 <title>computer world & study center</title>
2 <h1><b><i><u> <font size="5" face="gigi" color="blue">Hello world</font> </b></i></u>
3
```

RESULT ↓



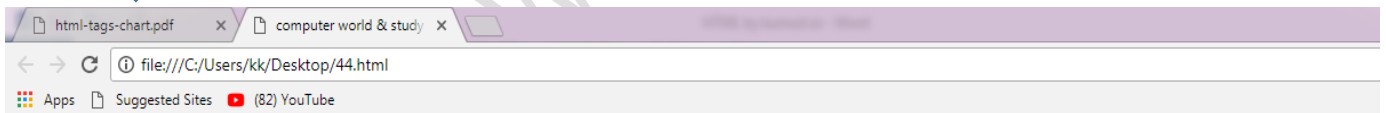
Hello world

Hr tag horizontal rule. Draw line on page

```
<hr color="red" width="75%" size="10">
```

```
C:\Users\kk\Desktop\44.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
if else.html x bulb.html x form.html x advance form.html x in.html x 44.html x
1 <title>computer world & study center</title>
2 <h1><b><i><u> <font size="5" face="gigi" color="blue">Hello world</font> </b></i></u>
3 <hr color="red" width="75%" size="10">
```

RESULT ↓



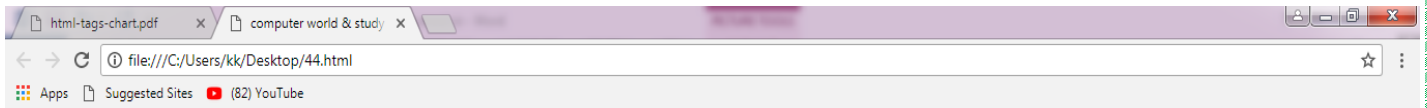
Hello world

Align tag (left, center, right) set text position on page

```
<h1 align="center"> computer world</h1>
```

```
C:\Users\kk\Desktop\44.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
if else.html x bulb.html x form.html x advance form.html x in.html x 44.html x
1 <title>computer world & study center</title>
2 <h1 align="center"><b><i><u> <font size="5" face="gigi" color="blue">Hello world</font> </b></i></u>
3 <hr color="red" width="75%" size="10">
```

RESULT ↓



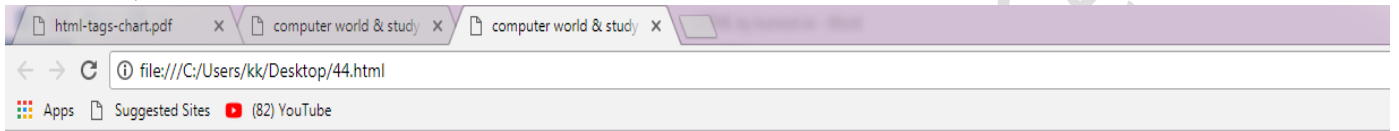
Hello world

---

<p> p tag is a paragraph tag.

```
1 <title>computer world & study center</title>
2 <h1 align="center"><b><i><u> <font size="5" face="gigi" color="blue">Hello world</font> </font></b></i></u>
3 <hr color="red" width="75%" size="10">
4 <p>Computer world and study center is institute of computer technology.</p>
5
```

RESULT ↓



Hello world

---

Computer world and study center is institute of computer technology.

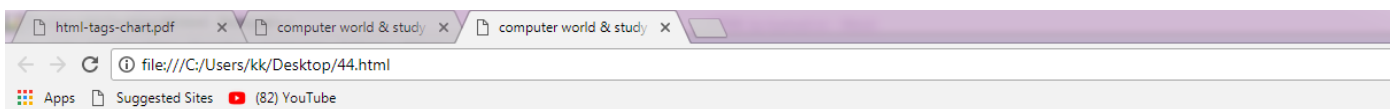
You can also set position means set align (left, center, right) in <p> tag

<p align="center">

And you can also do code of font tag.

<br> tag – br tag is line break tag. One </br> for single line break. For double line break<br></br>

```
1 <title>computer world & study center</title>
2 <h1 align="center"><b><i><u> <font size="5" face="gigi" color="blue">Hello world</font> </font></b></i></u>
3 <hr color="red" width="75%" size="10">
4 <p>Computer world and study center is<br> institute of computer technology</p>
5
```

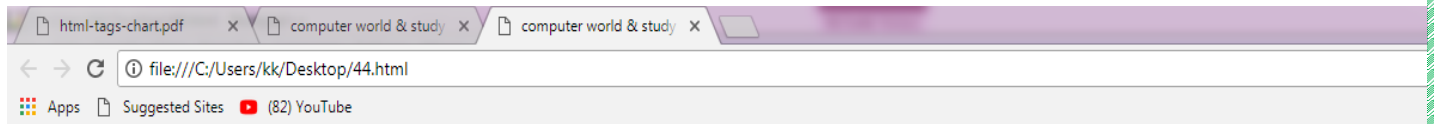


Hello world

---

Computer world and study center is  
institute of computer technology

Double line break



Hello world

Computer world and study center is  
institute of computer technology

<Marquee> tag marquee. <marquee direction="left">

<marquee direction="right">

<marquee behavior="alternate">virus </marquee>

Scrollamount is speed of marquee.

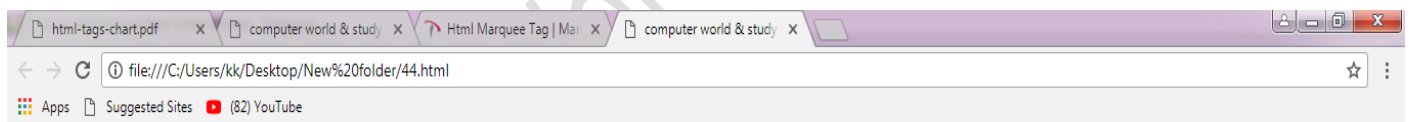
## Code define

<marquee scrollamount="10"> This is a marquee with scrollamount 10 </marquee>

<marquee scrollamount="25"> This is a marquee with scrollamount 25 </marquee>

<marquee scrollamount="50"> This is a marquee with scrollamount 50 </marquee>

<marquee scrollamount="100"> This is a marquee with scrollamount 100 </marquee>



Hello world

Computer world and study center is  
institute of computer technology

This is a marquee with scrollamount 25

kumod sir  
This is a marquee with scrollamount 10

This is a marquee with s  
This is a marquee with scrollamount 10

<marquee scrolldelay="10">This is a marquee with scrolldelay 10</marquee>

<marquee scrolldelay="25">This is a marquee with scrolldelay 25</marquee>

<marquee scrolldelay="50">This is a marquee with scrolldelay 50</marquee>

<marquee scrolldelay="100">This is a marquee with scrolldelay 100</marquee>

<marquee scrolldelay="200">This is a marquee with scrolldelay 200</marquee>

<marquee scrolldelay="300">This is a marquee with scrolldelay 300</marquee>

<marquee scrolldelay="500">This is a marquee with scrolldelay 500</marquee>

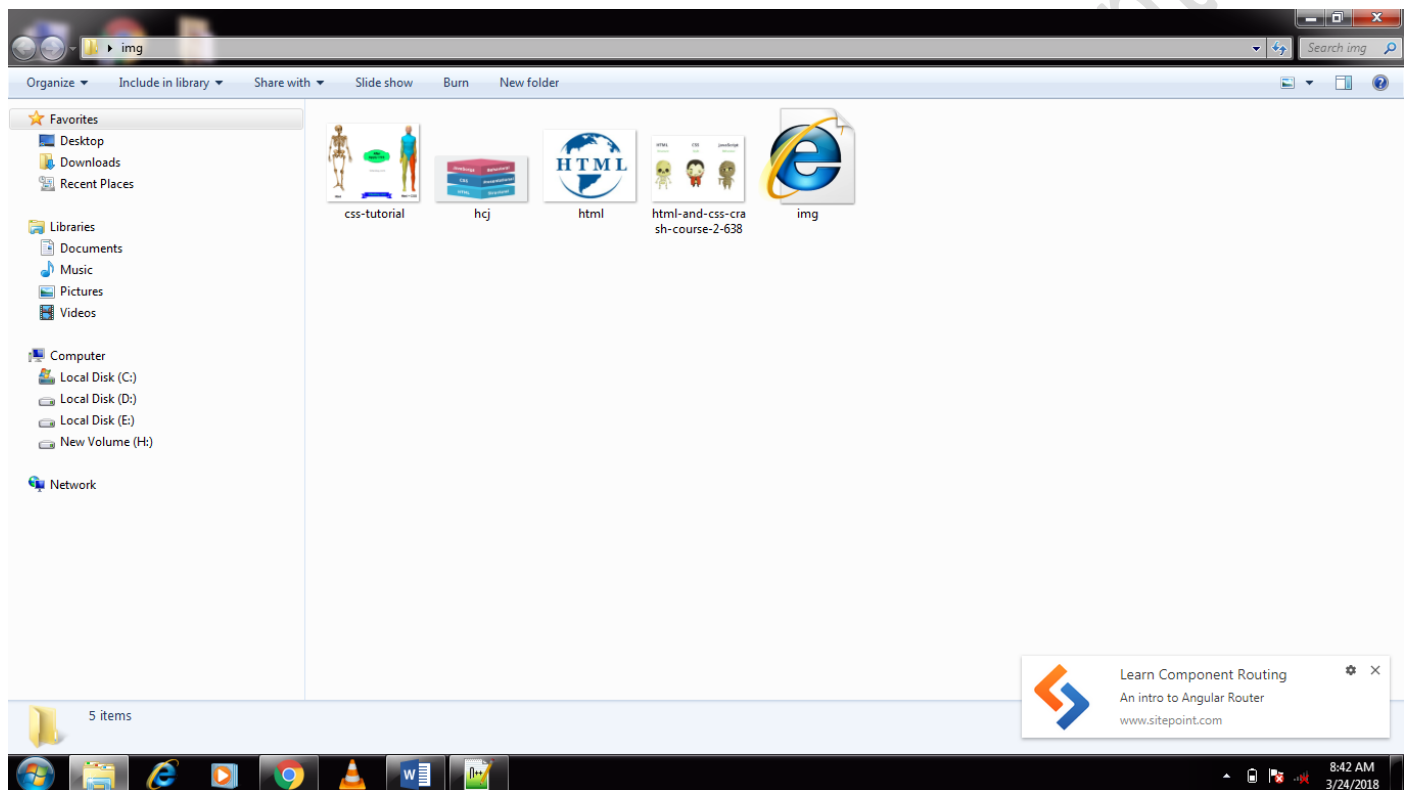
<marquee scrolldelay="1000">This is a marquee with scrolldelay 1000</marquee>

```
<marquee onmouseover="this.stop()" onmouseout="this.start()">This marquee will stop on mouseover.</marquee>
```

```
<marquee onclick="this.stop()" ondblclick="this.start()">This marquee will stop on mouseclick and start on double click. </marquee>
```

<img> tag this tag is used to insert image on web page.

*First of all. You have to create a folder or collect image and HTML file in this folder.*

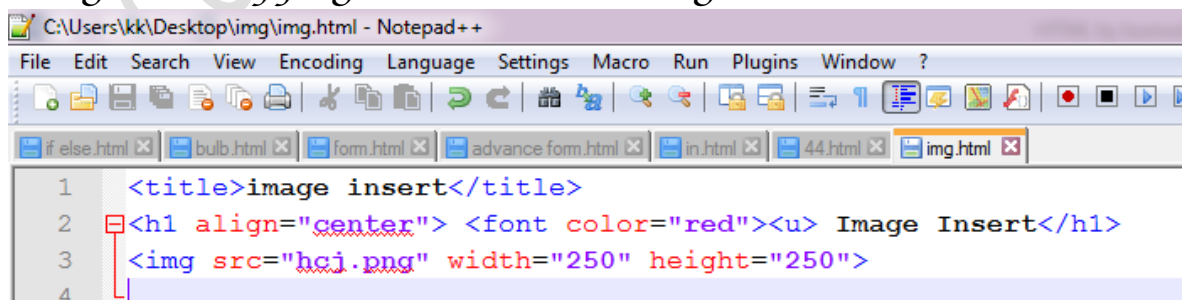


```
<title>image insert</title>
```

```
<h1 align="center"> <font color="red"><u> Image Insert</h1>
```

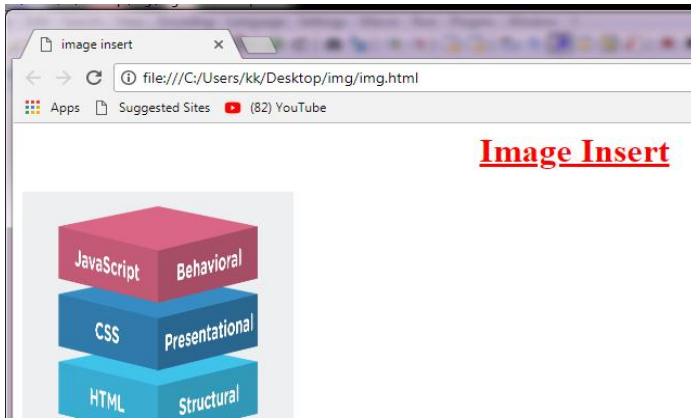
```

```



*Result*





## Listing on html

There are two type of list tag

`<ol>` ordered list (number & Alphabet listing)

`<ul>` unordered list(bullets listing)

## Numbered

`<ol>`

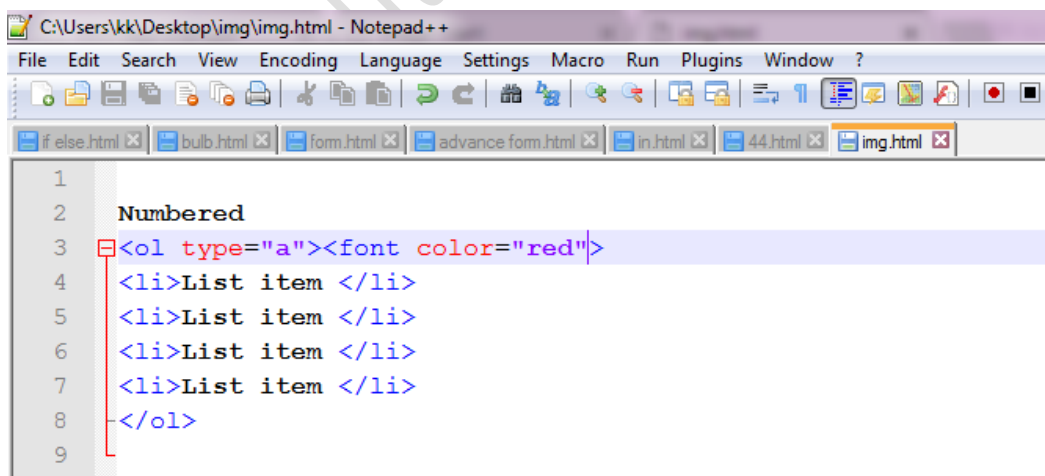
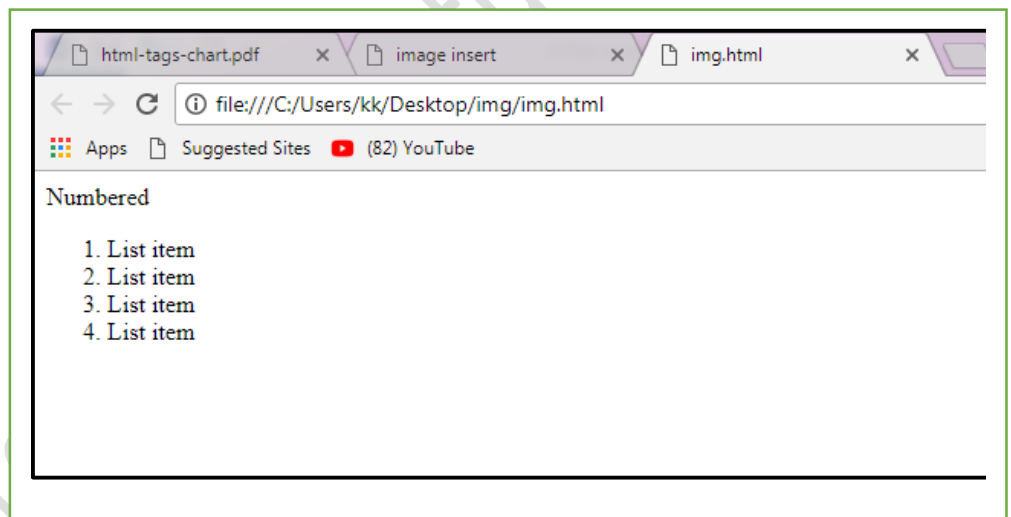
`<li>List item </li>`

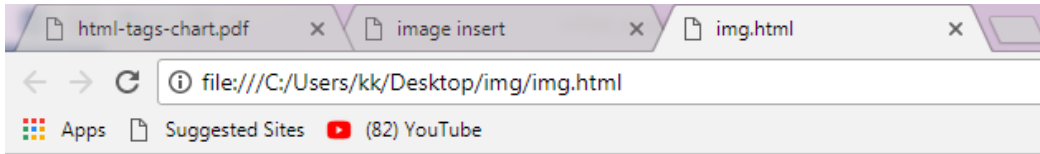
`<li>List item </li>`

`<li>List item </li>`

`<li>List item </li>`

`</ol>`





## Numbered

- a. List item
- b. List item
- c. List item
- d. List item

Computer World & Study Center

`<ol>` tag

coding

Browser view (result)

`<ol>`

ordered list

### Numbered

```
<ol>
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Numbered Special Start

```
<ol start="5">
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Lowercase Letters

```
<ol type="a">
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Capital Letters

```
<ol type="A">
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Capital Letters Special Start

```
<ol type="A" start="3">
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Lowercase Roman Numerals

```
<ol type="i">
<li>List item 1</li>
<li>List item 2</li>
<li>List item 3</li>
<li>List item 4</li>
</ol>
```

### Numbered

1. List item 1
2. List item 2
3. List item 3
4. List item 4

### Numbered Special Start

5. List item 1
6. List item 2
7. List item 3
8. List item 4

### Lowercase Letters

- a. List item 1
- b. List item 2
- c. List item 3
- d. List item 4

### Capital Letters

- A. List item 1
- B. List item 2
- C. List item 3
- D. List item 4

### Capital Letters Special Start

- C. List item 1
- D. List item 2
- E. List item 3
- F. List item 4

### Lowercase Roman Numerals

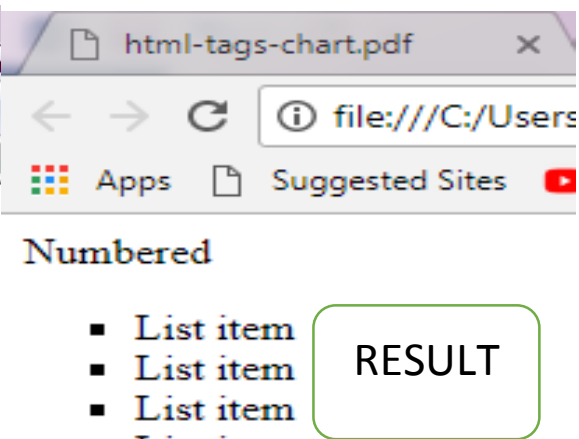
- i. List item 1
- ii. List item 2
- iii. List item 3
- iv. List item 4

### Capital Roman Numerals

- I. List item 1
- II. List item 2
- III. List item 3
- IV. List item 4

`<ul type="square">`

```
1  
2   Numbered  
3   <ul type="square">  
4     <li>List item </li>  
5     <li>List item </li>  
6     <li>List item </li>  
7     <li>List item </li>  
8   </ul>
```



`ul type="disc">`

`<li>List item 1</li>`

`<li>List item 2</li>`

`<ul type="circle">`

`<li>List item 3</li>`

`<li>List item 4</li>`

`</ul>`

`</ul>`

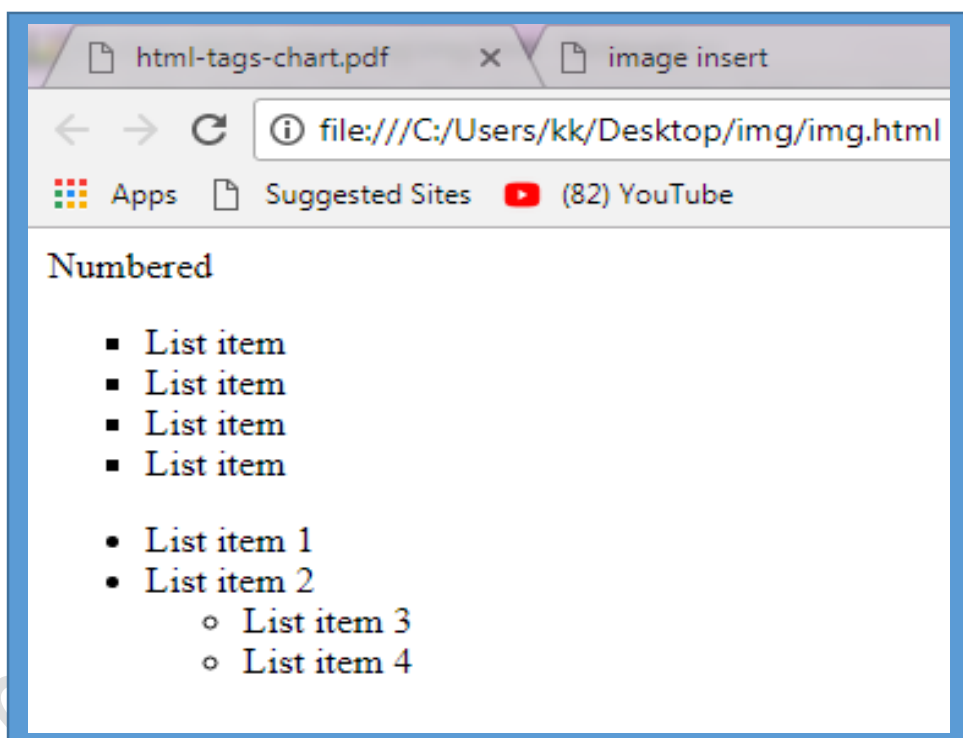


Table tag- this tag is used to draw table on web page.

There are three type of table coding

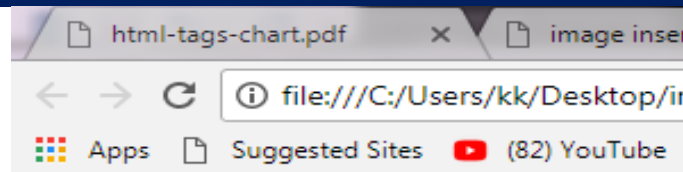
`<table border="1">` define the table border width in pixels.

`<td>` table data (make column)

`<th>` table heading(make heading)

`<tr>` table row(make row)

```
1   <h1> table coding</h1>  
2   <table border="1">  
3     <td>TEXT</td>  
4     <td>TEXT</td>  
5     <td>TEXT</td>  
6     <td>TEXT</td>  
7
```



**table coding**

TEXT	TEXT	TEXT	TEXT
------	------	------	------

<h1> table coding</h1>

<table border="1">

<td>TEXT</td>

<td>TEXT</td>

<td>TEXT</td>

<td>TEXT</td>

<TR>

<TD>text</Td>

<TD>text</Td>

<TD>text</Td>

<TD>text</Td>

</tr>

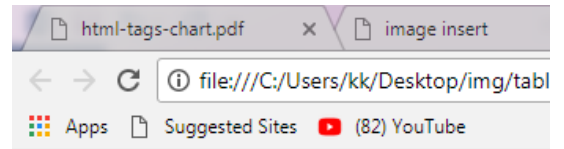
<th> example

```

1 <h1> table coding</h1>
2 <table border="1">
3 <td>TEXT</td>
4 <td>TEXT</td>
5 <td>TEXT</td>
6 <td>TEXT</td>
7 <TR>
8 <TD>text</Td>
9 <TD>text</Td>
10 <TD>text</Td>
11 <TD>text</Td>
12 </tr>
13

```

# Result



## table coding

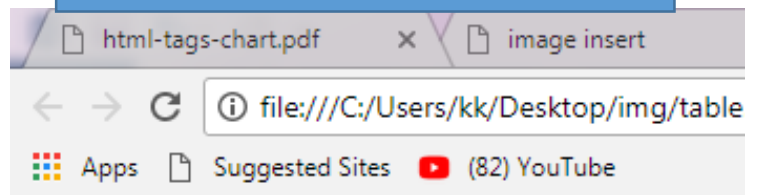
TEXT	TEXT	TEXT	TEXT
text	text	text	text

```

1 <h1> table coding</h1>
2 <table border="1">
3 <tr>
4 <th>Column 1</th>
5 <th>Column 2</th>
6 <th>Column 3</th>
7 </tr>
8 <tr>
9 <td>Row 2</td>
10 <td>Row 2</td>
11 <td>Row 2</td>
12 </tr>
13 <tr>
14 <td>Row 3</td>
15 <td>Row 3</td>
16 <td>Row 3</td>

```

# Result



## table coding

Column 1	Column 2	Column 3
Row 2	Row 2	Row 2
Row 3	Row 3	Row 3

```
<html>
```

```
<head>
```

```
<title>HTML Table</title>
```

```
</head>
```

```
<body>
```

```
<table border = "1" width = "100%">
```

```
<tr>
```

```
<td>
```

```
<table border = "1" width = "100%">
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>Salary</th>
```

```
</tr>
```

```
<tr>
```

```
<td>Ramesh Raman</td>
```

```
<td>5000</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Shabbir Hussein</td>
```

```
<td>7000</td>
```

```
</tr>
```

```
</table>
```

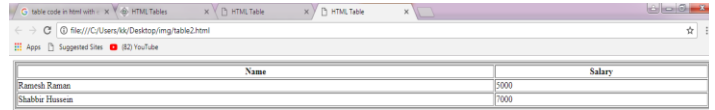
```
</td>
```

```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```



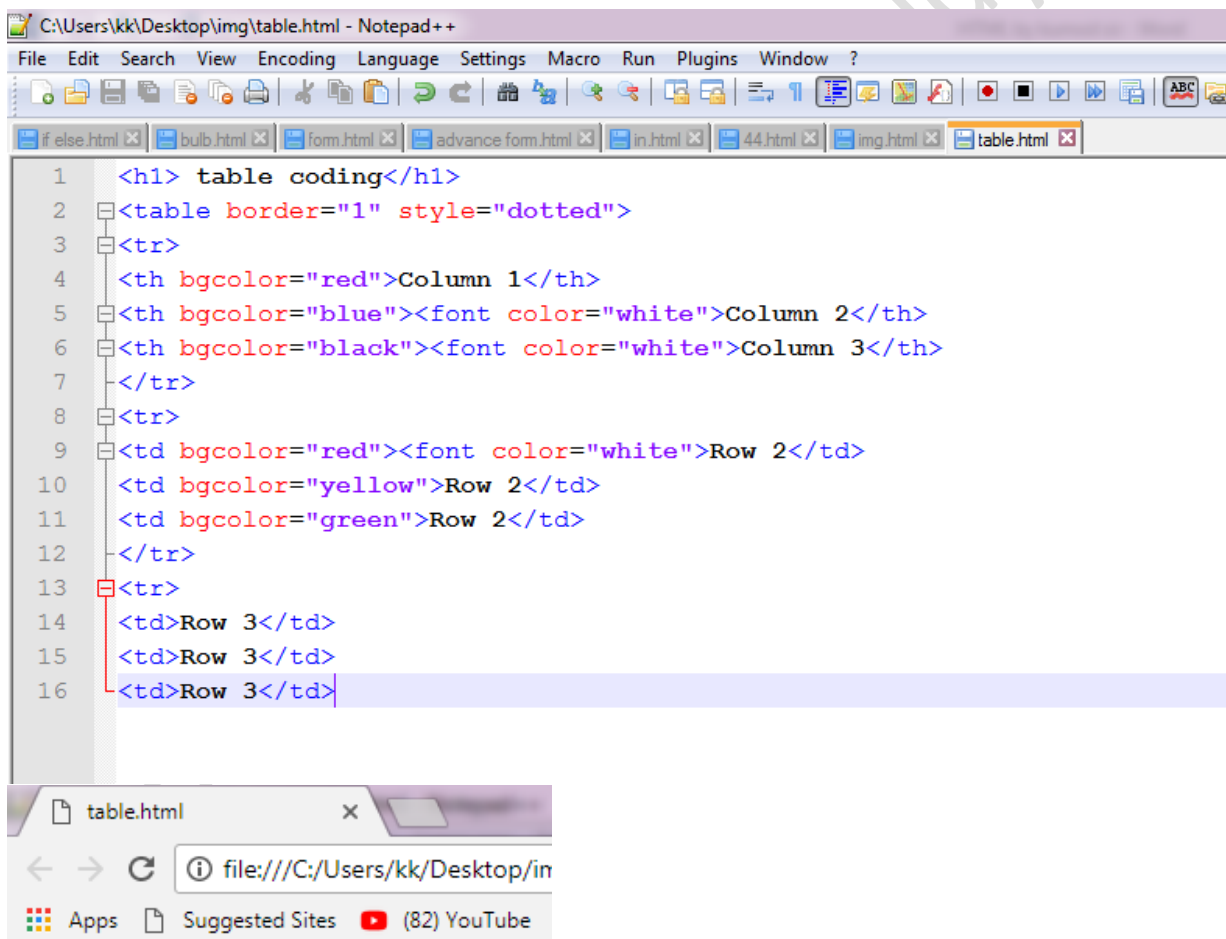
Name	Salary
Ramesh Raman	5000
Shabbir Hussein	7000



Computer World &

Color full table.

```
<h1> table coding</h1>
<table border="1" style="dotted">
<tr>
<th bgcolor="red">Column 1</th>
<th bgcolor="blue"><font color="white">Column 2</th>
<th bgcolor="black"><font color="white">Column 3</th>
</tr>
<tr>
<td bgcolor="red"><font color="white">Row 2</td>
<td bgcolor="yellow">Row 2</td>
<td bgcolor="green">Row 2</td>
</tr>
<tr>
<td>Row 3</td>
<td>Row 3</td>
<td>Row 3</td>
```



```
C:\Users\kk\Desktop\img\table.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
if else.html x bulb.html x fom.html x advance fom.html x in.html x 44.html x img.html x table.html x
1 <h1> table coding</h1>
2 <table border="1" style="dotted">
3 <tr>
4 <th bgcolor="red">Column 1</th>
5 <th bgcolor="blue"><font color="white">Column 2</th>
6 <th bgcolor="black"><font color="white">Column 3</th>
7 </tr>
8 <tr>
9 <td bgcolor="red"><font color="white">Row 2</td>
10 <td bgcolor="yellow">Row 2</td>
11 <td bgcolor="green">Row 2</td>
12 </tr>
13 <tr>
14 <td>Row 3</td>
15 <td>Row 3</td>
16 <td>Row 3</td>
```

table.html x

file:///C:/Users/kk/Desktop/in

Apps Suggested Sites (82) YouTube

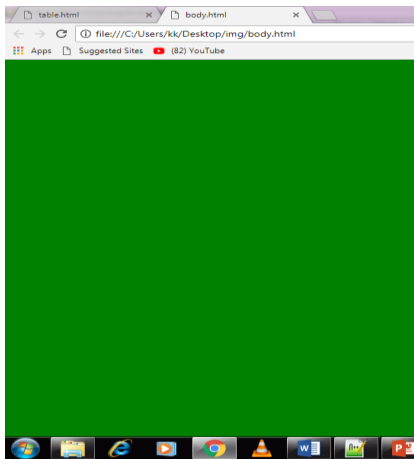
## table coding

Column 1	Column 2	Column 3
Row 2	Row 2	Row 2
Row 3	Row 3	Row 3

Body tag.

That means whole page of browser.

```
<body bgcolor="green">
```



You can also insert image on page.

```
<body background="hcj.png">
```

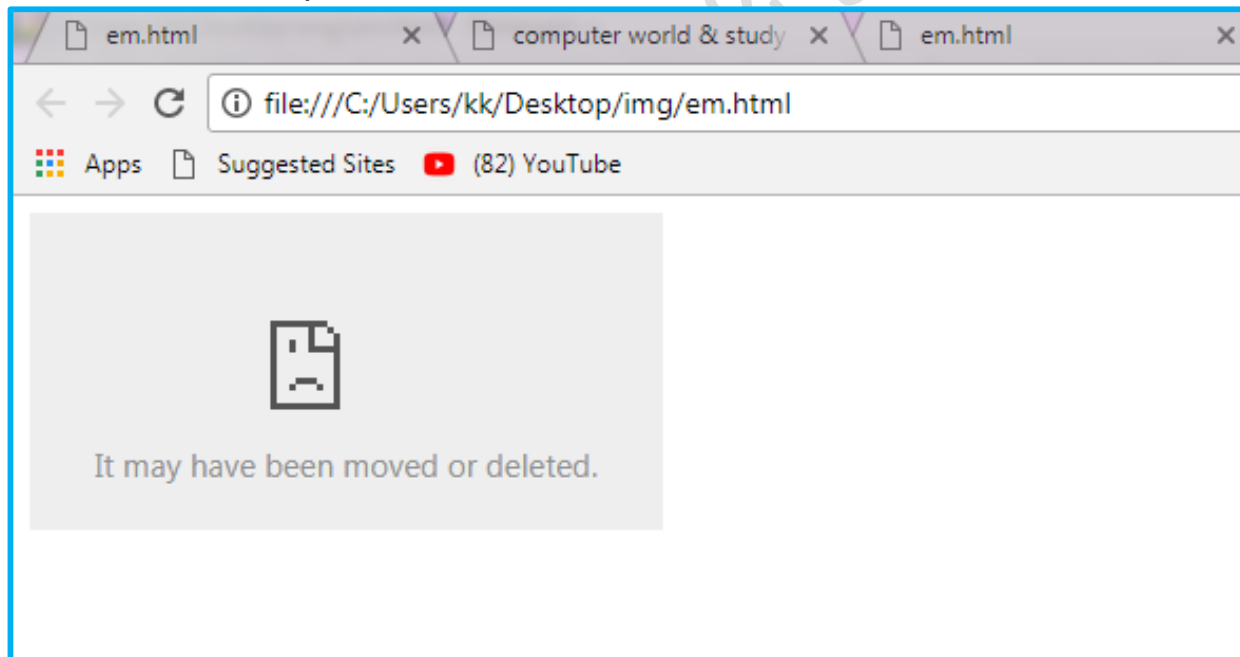
.png is format of image. And hcj name of image

Image will be inserted on bg depended on image size.

```
<embed>
```

```
<embed src="body.html" autostart="true"
```

```
hidden="false" loop="false">
```





Input type:- This tag is used to create form on web pages.

- 1.<input type="text">
- 2.<input type="password">
- 3.<input type="checkbox">
- 4.<input type="radio">
- 5.<input type="submit">
- 6.<input type="number">
- 7.<input type="Name">
- 8.<input type="button">
- 9.<input type="color">
- 10.<input type="date">
- 11.<input type="datetime-local">
- 12.<input type="range">
- 13.<input type="time">



Explain:-

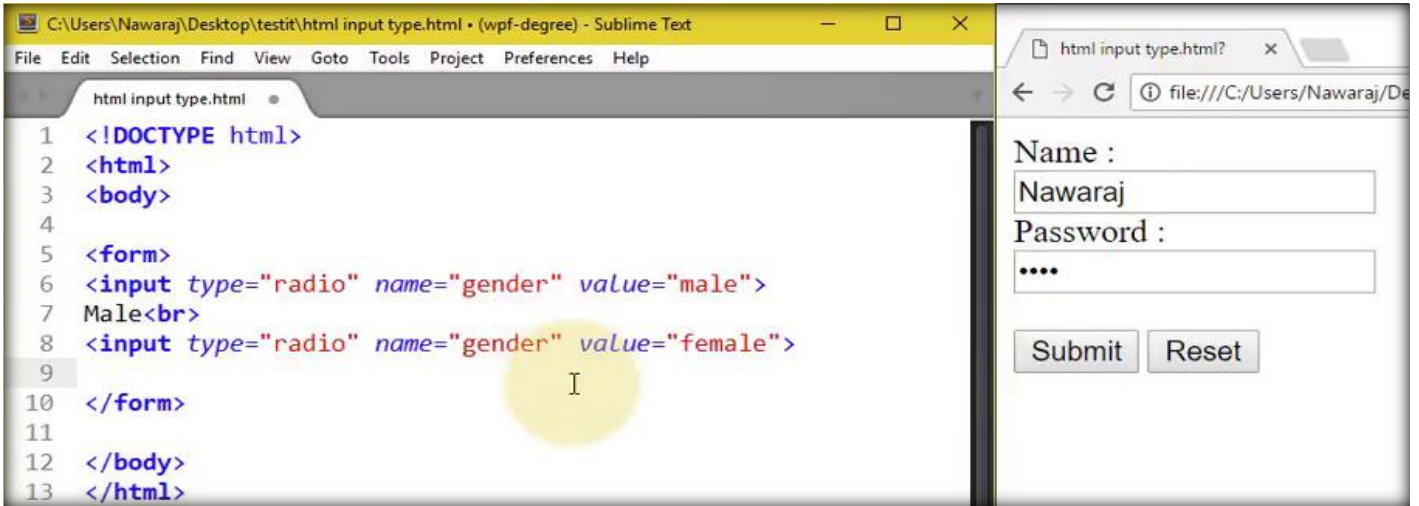
A screenshot of a web browser window. The left pane shows the HTML code for a form. The right pane shows the rendered form output. The HTML code is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 Name :<br>
7 <input type="text">
8 </form>
9
10 </body>
11 </html>
```

The rendered form output shows a label "Name :" followed by a text input field containing the text "Nawaraj".

<input type="text">

## <input type="password">



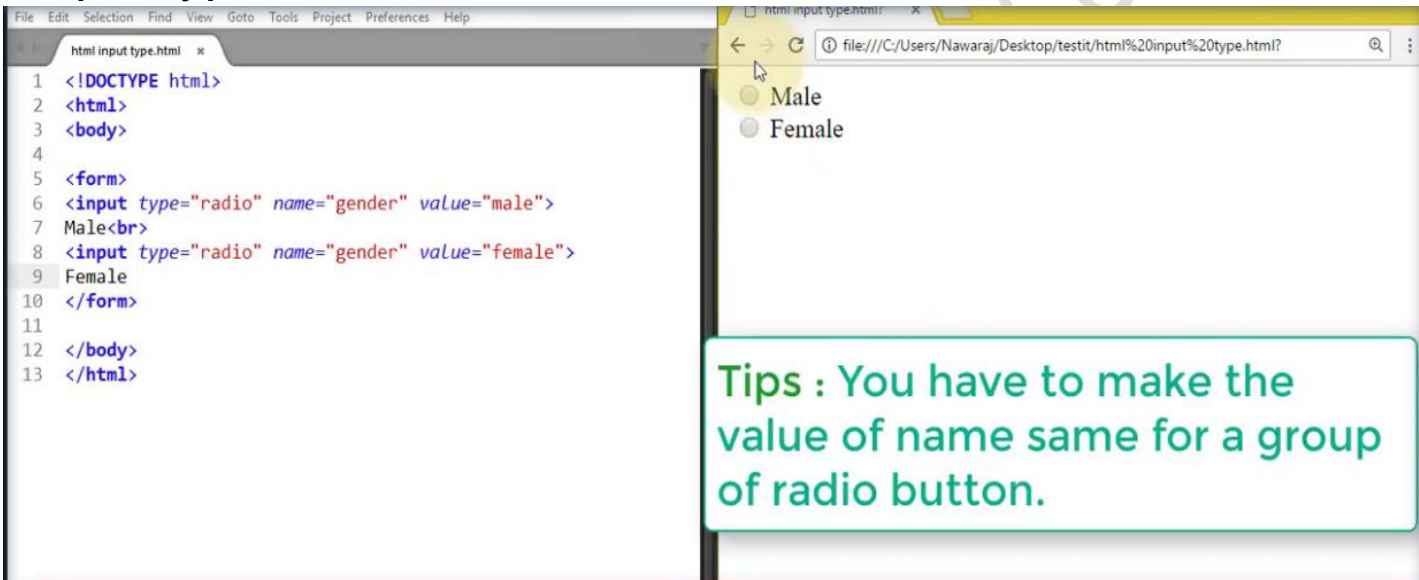
The screenshot shows a web browser displaying a form with the following fields:

- Name : Nawaraj
- Password : .....
- Submit
- Reset

The source code in the background shows the following HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="radio" name="gender" value="male">
7 Male<br>
8 <input type="radio" name="gender" value="female">
9
10 </form>
11
12 </body>
13 </html>
```

## <input type="radio">



The screenshot shows a web browser displaying a form with the following fields:

- Male
- Female

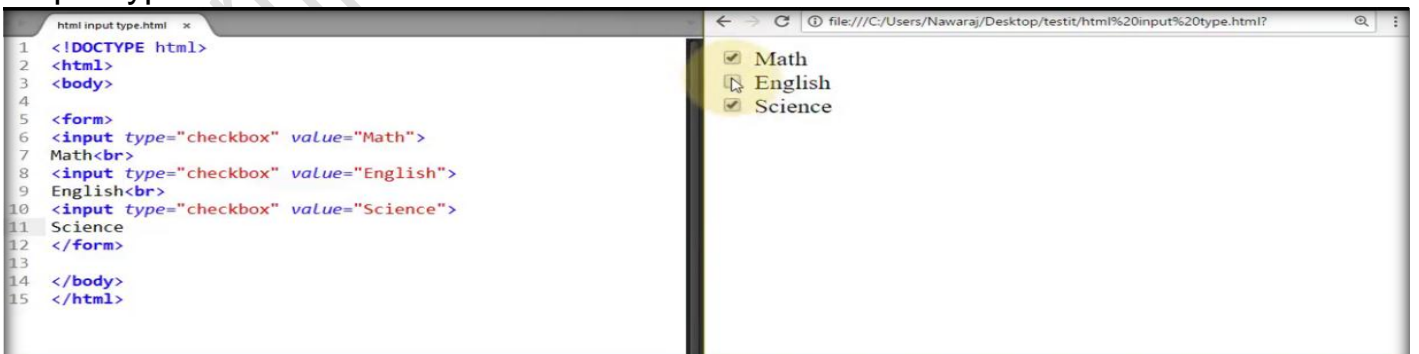
The source code in the background shows the following HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="radio" name="gender" value="male">
7 Male<br>
8 <input type="radio" name="gender" value="female">
9 Female
10 </form>
11
12 </body>
13 </html>
```

**Tips : You have to make the value of name same for a group of radio button.**

```
<input type="radio" name="gender" value="male">
<input type="radio" name="gender" value="male">
```

## <input type="checkbox">



The screenshot shows a web browser displaying a form with the following fields:

- Math
- English
- Science

The source code in the background shows the following HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="checkbox" value="Math">
7 Math<br>
8 <input type="checkbox" value="English">
9 English<br>
10 <input type="checkbox" value="Science">
11 Science
12 </form>
13
14 </body>
15 </html>
```

```
<input type="checkbox" value="Math">
<input type="checkbox" value="English">
<input type="checkbox" value="Science">
```

## <input type="button">

The screenshot shows a web browser window with a file:// URL. The HTML editor on the left contains the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="button" value="Button" onclick="alert('Hello
  YouTube')">
7 </form>
8
9 </body>
10 </html>
```

The rendered page on the right shows a single button with the text "Button".

## <input type="color">

The screenshot shows a web browser window with a file:// URL. The HTML editor on the left contains the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="color" id="send" oninput="result.value = send.
  value">
7 <input type="text" id="result">
8 </form>
9
10 </body>
11 </html>
```

The rendered page on the right shows a color input field with a green swatch and a text input field containing the hex code "#008000".

## <input type="date">

The screenshot shows a web browser window with a file:// URL. The HTML editor on the left contains the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="date" id="send" oninput="result.value = send.
  value">
7 <input type="text" id="result">
8 </form>
9
10 </body>
11 </html>
```

The rendered page on the right shows a date input field with a calendar icon and a text input field containing the date "2017-06-25".

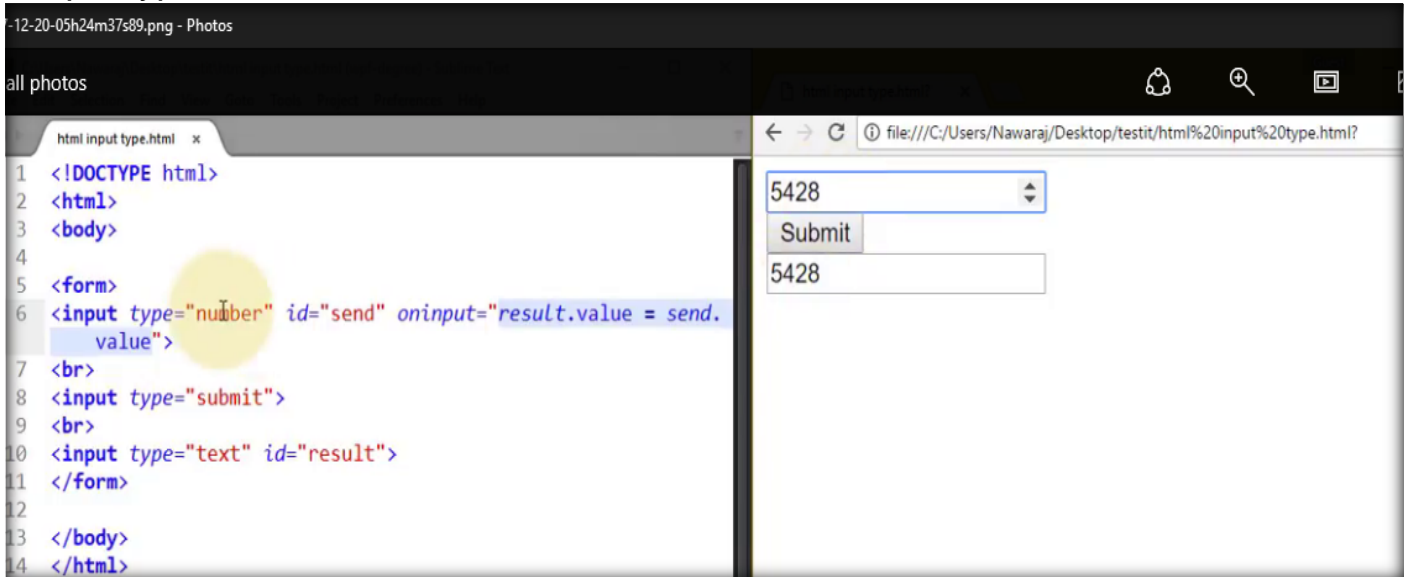
## <input type="datetime">

The screenshot shows a web browser window with a file:// URL. The HTML editor on the left contains the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="datetime-local" id="send" oninput="result.value
  = send.value">
7 <input type="text" id="result">
8 </form>
9
10 </body>
11 </html>
```

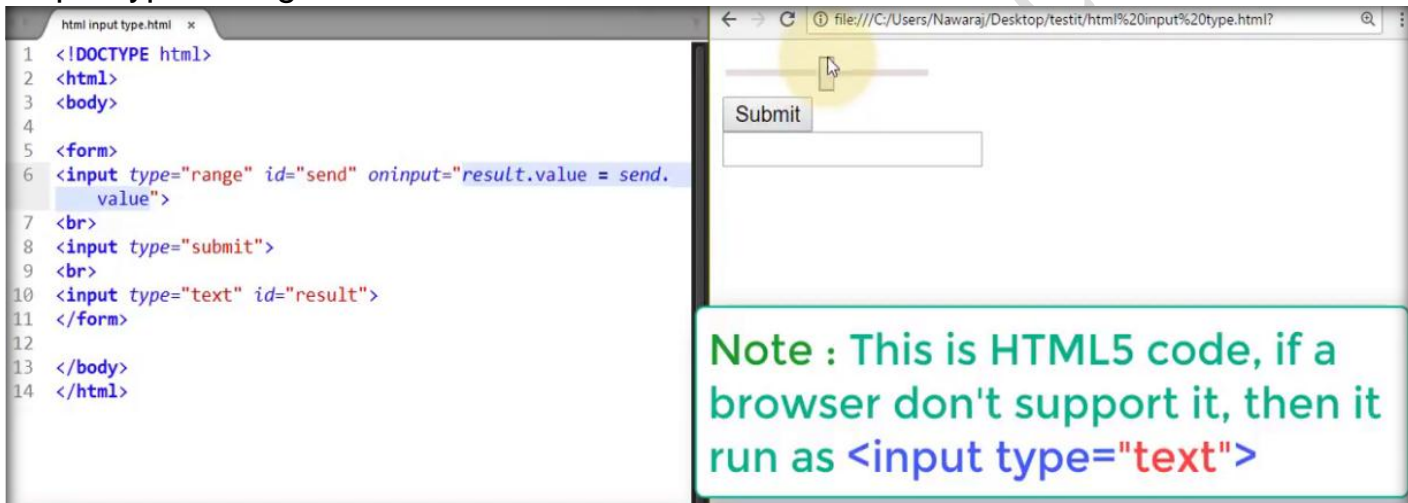
The rendered page on the right shows a datetime input field with a calendar icon and a text input field containing the datetime "2017-06-25T02:58".

## <input type="number">



```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="number" id="send" oninput="result.value = send.
   value">
7 <br>
8 <input type="submit">
9 <br>
10 <input type="text" id="result">
11 </form>
12
13 </body>
14 </html>
```

## <input type="range">

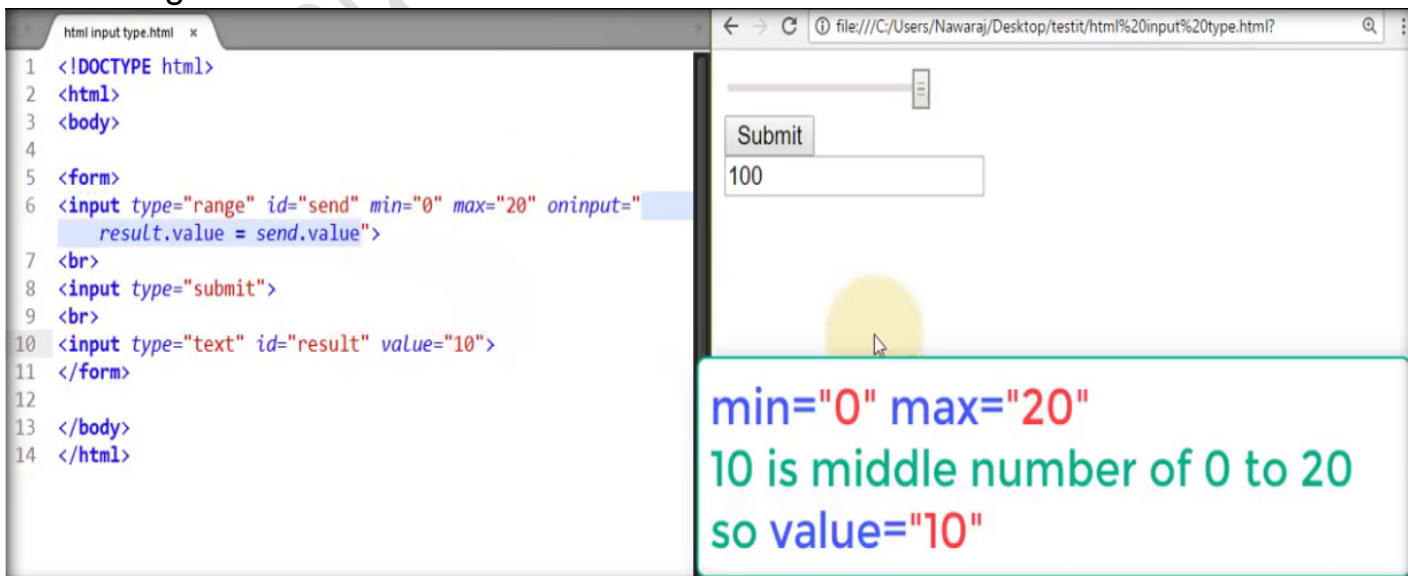


```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="range" id="send" oninput="result.value = send.
   value">
7 <br>
8 <input type="submit">
9 <br>
10 <input type="text" id="result">
11 </form>
12
13 </body>
14 </html>
```

Note : This is HTML5 code, if a browser don't support it, then it run as `<input type="text">`

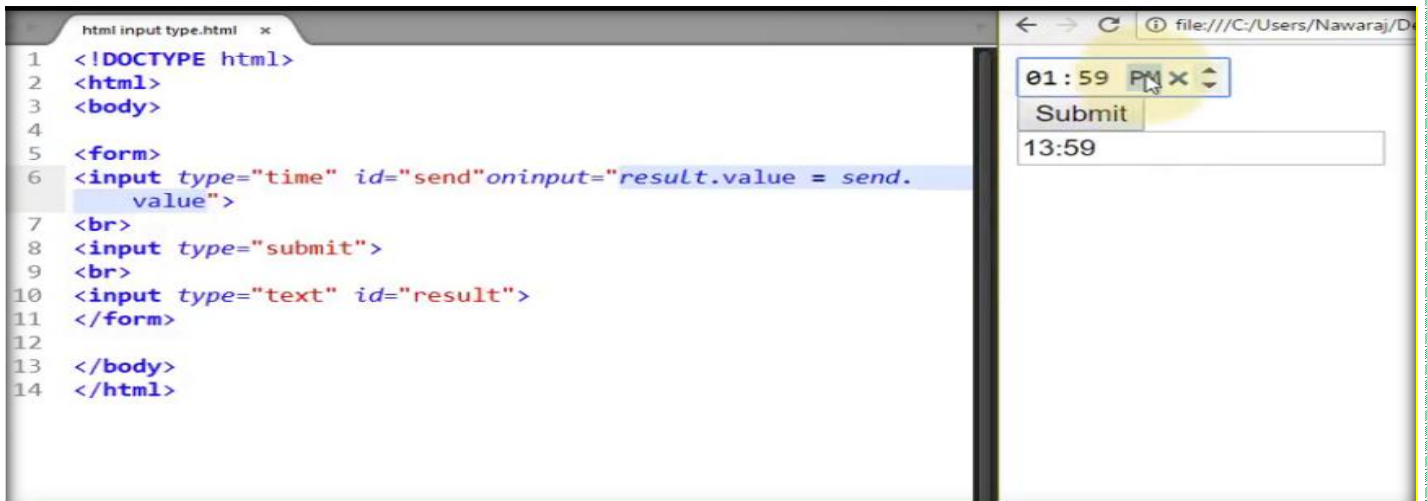
## <input type="range">

### Value range 0-20



```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <form>
6 <input type="range" id="send" min="0" max="20" oninput="
   result.value = send.value">
7 <br>
8 <input type="submit">
9 <br>
10 <input type="text" id="result" value="10">
11 </form>
12
13 </body>
14 </html>
```

min="0" max="20"  
10 is middle number of 0 to 20  
so value="10"



`<input type="time">`

<Select> this tag is used to create option value.

Select an option:

```

<select>
<option>option 1</option>
<option selected>option 2</option>
<option>option 3</option>
<option>option 4</option>
<option>option 5</option>
<option>option 6</option>
</select><br>
</center>
</form>

```

Select an option:

<a> anchor tag

<a href="44.html">jump to another link</a>

```

<a href="44.html">jump to another link</a>

```

Anchor      File name      format      Text that display in browser

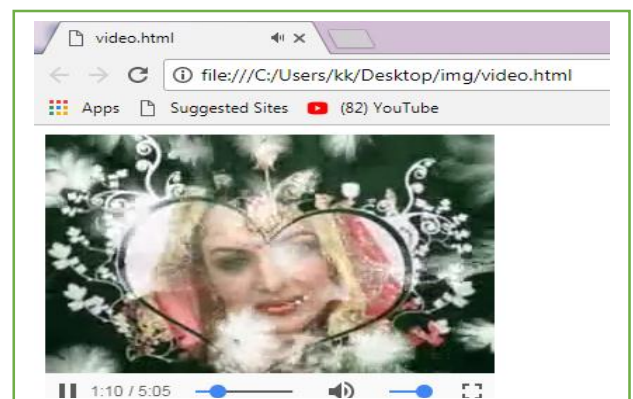
<Video>tag

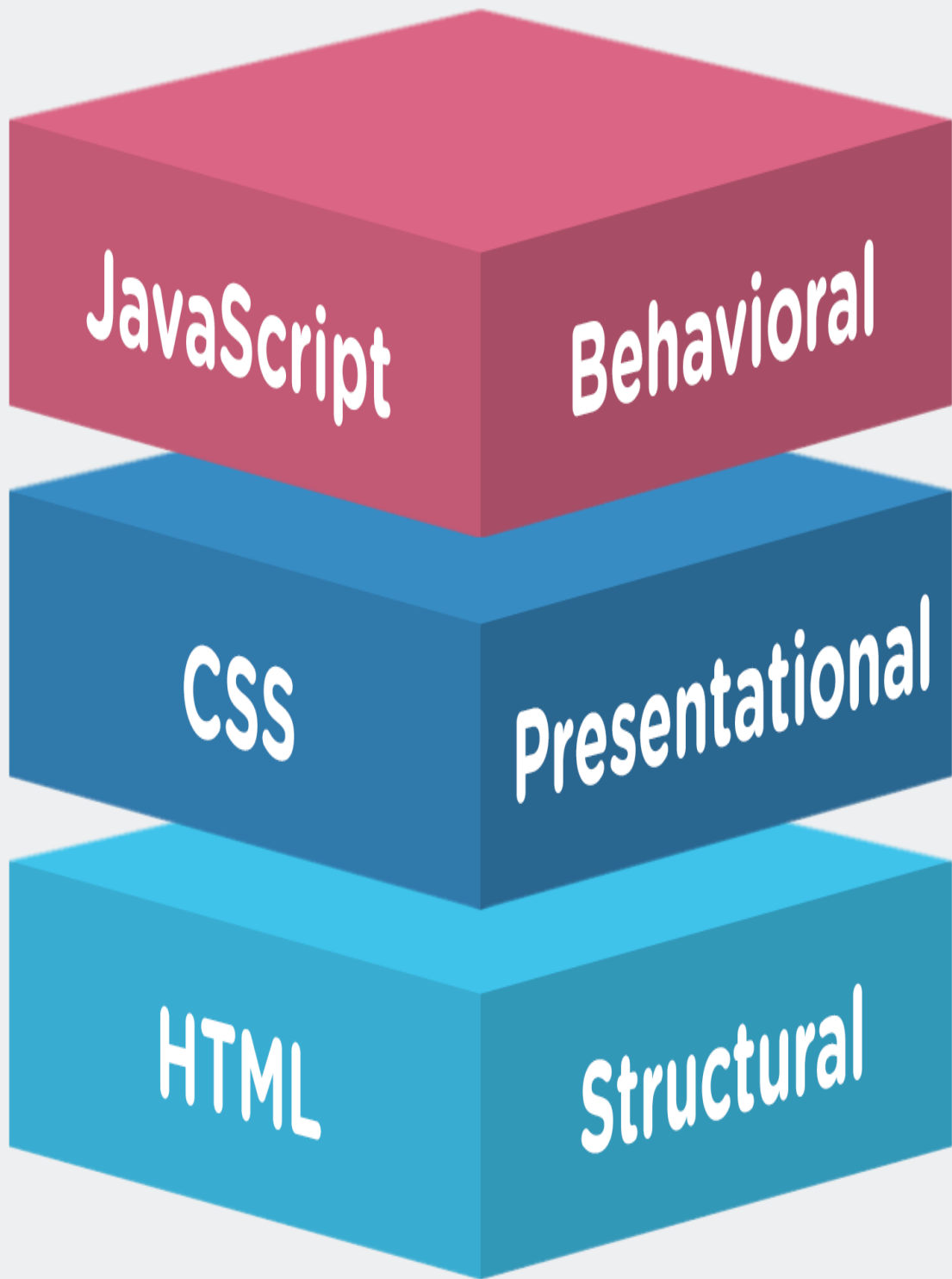
<video width="320" height="240" controls>

<source src="sato.mp4" type="video/mp4">

<source src="movie.ogg" type="video/ogg">

</video>





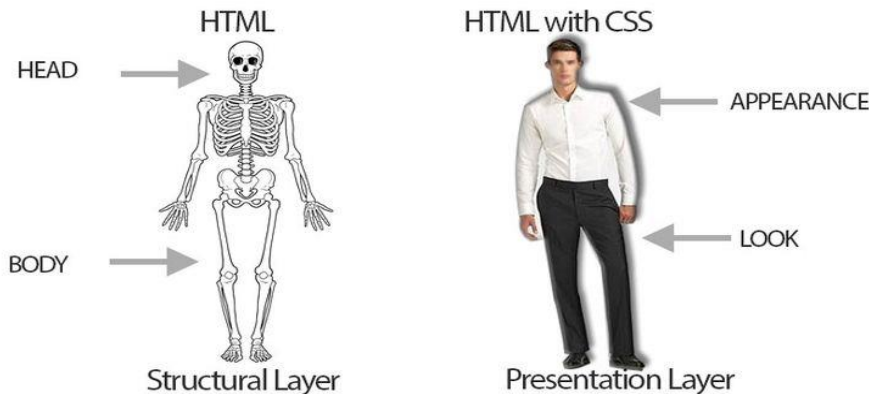


## Css: - Cascading Style Sheets

CSS was first proposed by Hakon Wium Lie on October 10, 1994. At the time, Lie was working with Tim Berners-Lee at CERN.

### What is CSS?

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files.



{ ..... **CSS: - start with**

# } CSS: - close with

There are three types of css

## Inline CSS

```
<p style="color: blue;">This is a paragraph.</p>
```

## Internal CSS

```
<head>
  <style type = text/css>
    body {background-color: blue;}
    p { color: yellow;}
  </style>
</head>
```

## External CSS

```
<head>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
```

**CSS selectors** are used *to select the content you want to style*. Selectors are the part of CSS rule set. CSS selectors select HTML elements according to its id, class, type, attribute etc.

There are several different types of selectors in CSS.

1. CSS Element Selector
2. CSS Id Selector
3. CSS Class Selector
4. CSS Universal Selector
5. CSS Group Selector



# 1) CSS Element Selector

The element selector selects the HTML element by name.

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `p{`
6. `text-align: center;`
7. `color: blue;`
8. `}`
9. `</style>`
10. `</head>`
11. `<body>`
12. `<p>This style will be applied on every paragraph.</p>`
13. `<p id="para1">Me too!</p>`

Output:

This style will be applied on every paragraph.

Me too!

And me!

## 2) CSS Id Selector

The id selector selects the id attribute of an HTML element to select a specific element. An id is always unique within the page so it is chosen to select a single, unique element.

It is written with the hash character (#), followed by the id of the element.

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `#para1 {`
6. `text-align: center;`
7. `color: blue;`
8. `}`
9. `</style>`
10. `</head>`
11. `<body>`
12. `<p id="para1">Hello Javatpoint.com</p>`
13. `<p>This paragraph will not be affected.</p>`
14. `</body>`
15. `</html>`

Output:

Hello Javatpoint.com

This paragraph will not be affected.

### 3) CSS Class Selector (The class selector selects HTML elements with a specific class attribute. It is used with a period character . (full stop symbol) followed by the class name.)

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. .center {
6.   text-align: center;
7.   color: blue;
8. }
9. </style>
10.</head>
11.<body>
12.<h1 class="center">This heading is blue and center-aligned.</h1>
13.<p class="center">This paragraph is blue and center-aligned.</p>
14.</body>
15.</html>
```

Output:

**This heading is blue and center-aligned.**

This paragraph is blue and center-aligned.

### CSS Class Selector for specific element

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. p.center {
6.   text-align: center;
7.   color: blue;
8. }
9. </style>
10.</head>
11.<body>
12.<h1 class="center">This heading is not affected</h1>
13.<p class="center">This paragraph is blue and center-aligned.</p>
14.</body>
15.</html>
```

Output:

**This heading is not affected**

This paragraph is blue and center-aligned.

## 4) CSS Universal Selector.

The universal selector is used as a wildcard character. It selects all the elements on the pages.

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `* {`
6. `color: green;`
7. `font-size: 20px;`
8. `}`
9. `</style>`
10. `</head>`
11. `<body>`
12. `<h2>This is heading</h2>`
13. `<p>This style will be applied on every paragraph.</p>`
14. `<p id="para1">Me too!</p>`
15. `<p>And me!</p>`
16. `</body>`
17. `</html>`

Output:

**This is heading**

This style will be applied on every paragraph.

Me too!

And me!

## 5) CSS Group Selector

The grouping selector is used to select all the elements with the same style definitions.

Grouping selector is used to minimize the code. Commas are used to separate each selector in grouping.

1. `h1 {`
2. `text-align: center;`
3. `color: blue;`
4. `}`
5. `h2 {`
6. `text-align: center;`
7. `color: blue;`
8. `}`
9. `p {`

10. text-align: center;
11. color: blue;

As you can see, you need to define CSS properties for all the elements. It can be grouped in following ways:

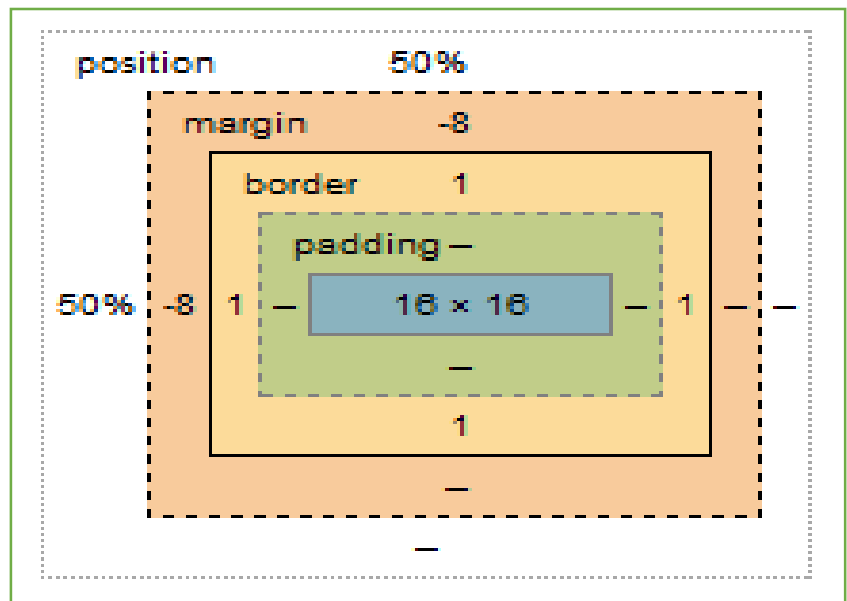
1. h1,h2,p {
2. text-align: center;
3. color: blue;
4. }

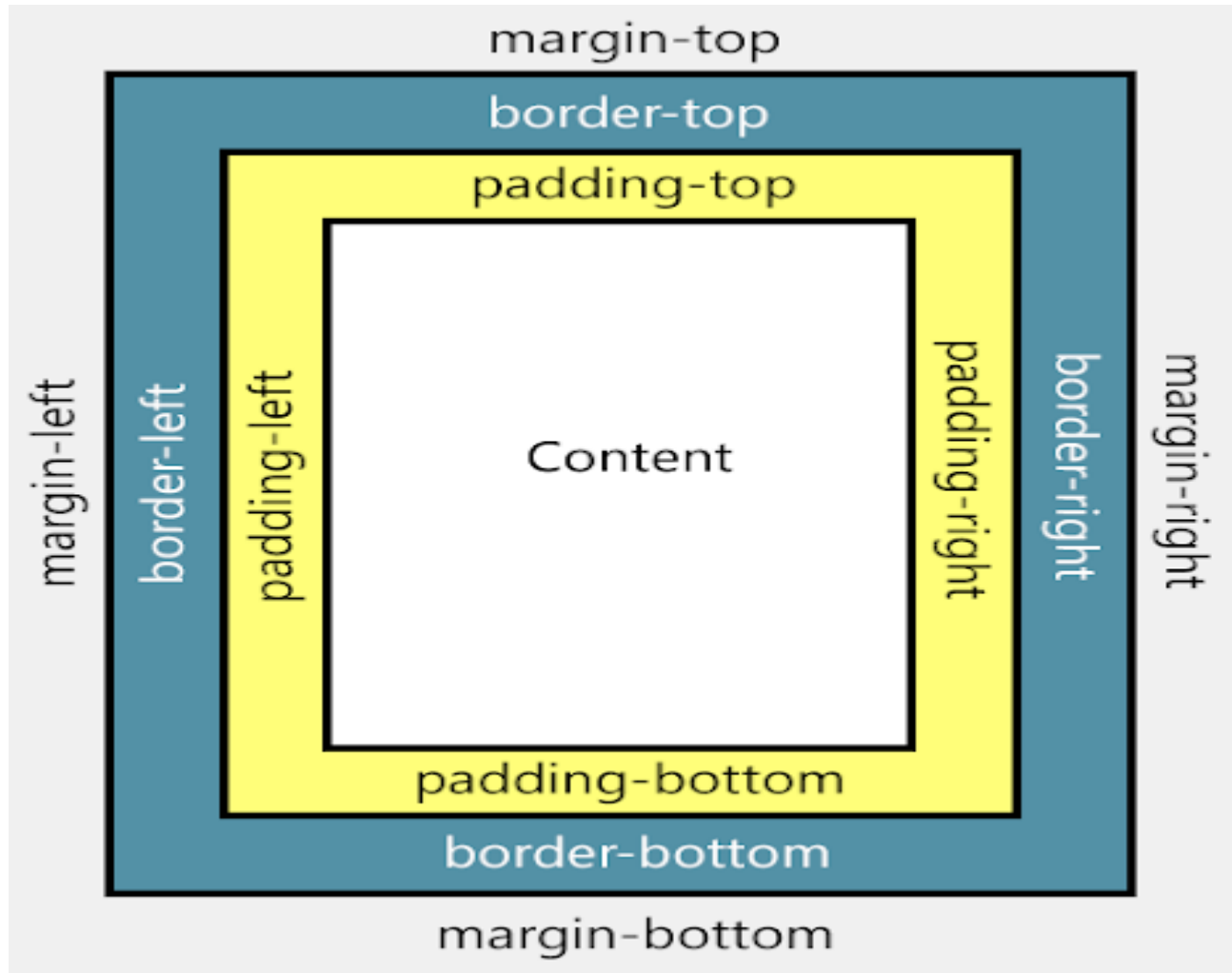
Let's see the full example of CSS group selector.

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. h1, h2, p {
6. text-align: center;
7. color: blue;
8. }
9. </style>
- 10.</head>
- 11.<body>
- 12.<h1>Hello Javatpoint.com</h1>
- 13.<h2>Hello Javatpoint.com (In smaller font)</h2>
- 14.<p>This is a paragraph.</p>
- 15.</body>
- 16.</html>

Output:

**Hello Javatpoint.com**  
Hello Javatpoint.com (In smaller font)  
This is a paragraph





## Inline CSS

We can apply CSS in a single element by inline CSS technique.

1. `<h2 style="color:red;margin left:40px;">Inline CSS is applied on this heading.</h2>`
2. `<p>This paragraph is not affected.</p>`

3. Output:

**4. Inline CSS is applied on this heading.**

5. This paragraph is not affected.

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `body {`
6. `background-color: linen;`
7. `}`
8. `h1 {`
9. `color: red;`
10. `margin-left: 80px;`
11. `}`
12. `</style>`
13. `</head>`
14. `<body>`
15. `<h1>`The internal style sheet is applied on this heading.`</h1>`
16. `<p>`This paragraph will not be affected.`</p>`
17. `</body>`
18. `</html>`



## External CSS

1. `<head>`
2. `<link rel="stylesheet" type="text/css" href="mystyle.css">`
3. `</head>`

Step 1.

The external style sheet may be written in any text editor but must be saved with a .css extension. This file should not contain HTML elements.

*File: mystyle.css*

1. `body {`
2. `background-color: lightblue;`
3. `}`
4. `h1 {`
5. `color: navy;`
6. `margin-left: 20px;`
7. `}`

Step 2.

# CSS Comments

Comments are single or multiple lines statement and written within `/*.....*/` .

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `p {`
6. `color: blue;`
7. `/* This is a single-line comment */`
8. `text-align: center;`
9. `}`
10. `/* This is`
11. `a multi-line`
12. `comment */`
13. `</style>`
14. `</head>`
15. `<body>`
16. `<p>Hello Javatpoint.com</p>`
17. `<p>This statement is styled with CSS.</p>`
18. `<p>CSS comments are ignored by the browsers and not shown in the output.</p>`
19. `</body>`
20. `</html>`

Hello Javatpoint.com  
This statement is styled with CSS.  
CSS comments are ignored by the browsers and not shown in the output.

## CSS Background

CSS background property is used to define the background effects on element. There are 5 CSS background properties that affects the HTML elements:

1. background-color
2. background-image
3. background-repeat
4. background-attachment
5. background-position

## 1) CSS background-color

The background-color property is used to specify the background color of the element.

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. h2,p{
6.     background-color: #b0d4de;
7. }
8. </style>
9. </head>
10. <body>
11. <h2>My first CSS page.</h2>
12. <p>Hello Javatpoint. This is an example of CSS background-color.</p>
13. </body>
14. </html>



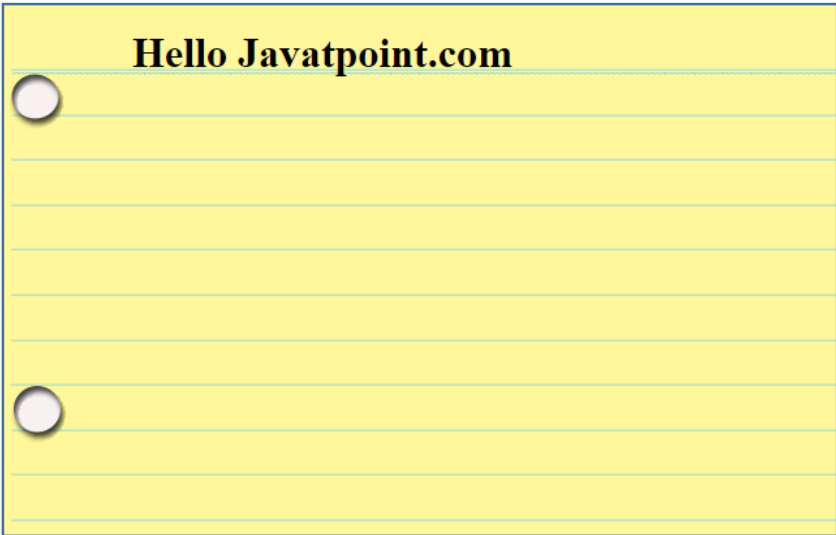
Hello Javatpoint. This is an example of CSS background-color.

## 2) CSS background-image

The background-image property is used to set an image as a background of an element.

By default the image covers the

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. body {
6.     background-image: url("paper1.gif");
7.     margin-left:100px;
8. }
9. </style>
10. </head>
11. <body>
12. <h1>Hello Javatpoint.com</h1>
13. </body>
14. </html>





### 3) CSS background-repeat

By default, the background-image property repeats the background image horizontally and vertically. Some images are repeated only horizontally or vertically.

The background looks better if the image repeated horizontally only.

#### **background-repeat: repeat-x;**

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. body {
6.   background-image: url("gradient\_bg.png");
7.   background-repeat: repeat-x;
8. }
9. </style>
- 10.</head>
- 11.<body>
- 12.<h1>Hello Javatpoint.com</h1>
- 13.</body>
- 14.</html>



#### **background-repeat: repeat-y;**

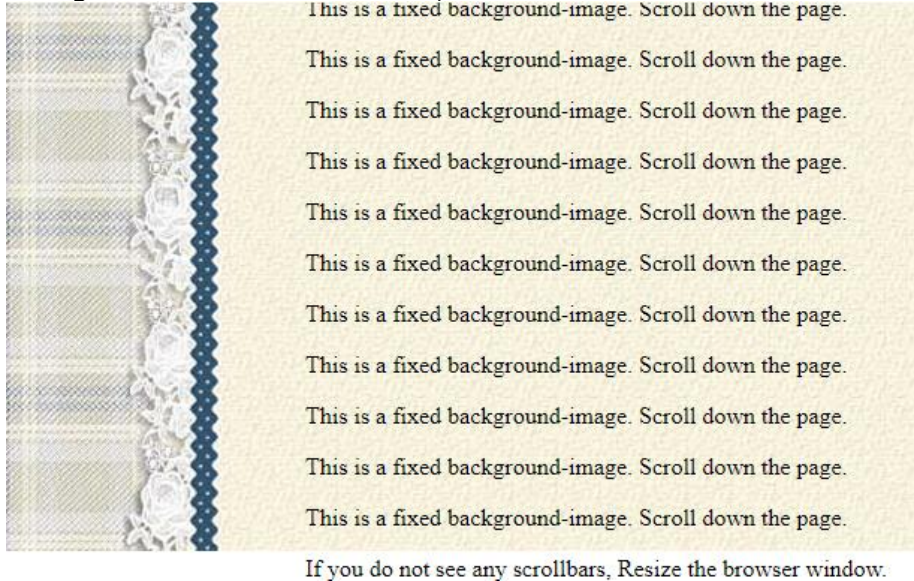
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. body {
6.   background-image: url("gradient\_bg.png");
7.   background-repeat: repeat-y;
8. }
9. </style>
- 10.</head>
- 11.<body>
- 12.<h1>Hello Javatpoint.com</h1>
- 13.</body>
- 14.</html>



## 4) CSS background-attachment

The background-attachment property is used to specify if the background image is fixed or scroll with the rest of the page in browser window. If you set fixed the background image then the image will not move during scrolling in the browser. Let's take an example with fixed background image.

1. background: white url('bbb.gif');
2. background-repeat: no-repeat;
3. background-attachment: fixed;



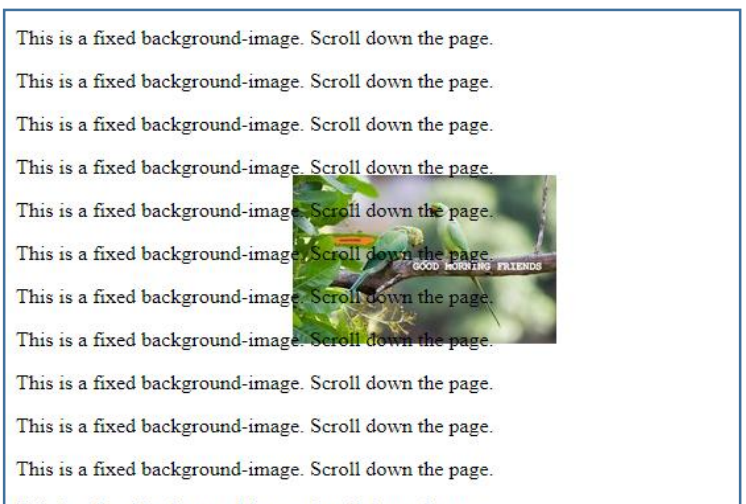
## 5) CSS background-position

The background-position property is used to define the initial position of the background image. By default, the background image is placed on the top-left of the webpage.

You can set the following positions:

1. center
2. top
3. bottom
4. left
5. right

1. background: white url('good-morning.jpg');
2. background-repeat: no-repeat;
3. background-attachment: fixed;
4. background-position: center;



# CSS Border

The CSS border is a shorthand property used to set the border on an element.

The [CSS](#) border properties are use to specify the style, color and size of the border of an element. The CSS border properties are given below

- border-style
- border-color
- border-width
- border-radius

**1) CSS border-style.** The Border style property is used to specify the border type which you want to display on the web page.

There are some border style values which are used with border-style property to define a border.

Value	Description
none	It doesn't define any border.
dotted	It is used to define a dotted border.
dashed	It is used to define a dashed border.
solid	It is used to define a solid border.
double	It defines two borders wIth the same border-width value.
groove	It defines a 3d grooved border. effect is generated according to border-color value.
ridge	It defines a 3d ridged border. effect is generated according to border-color value.
inset	It defines a 3d inset border. effect is generated according to border-color value.
outset	It defines a 3d outset border. effect is generated according to border-color value.

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. p.none {border-style: none;}
6. p.dotted {border-style: dotted;}
7. p.dashed {border-style: dashed;}
8. p.solid {border-style: solid;}
9. p.double {border-style: double;}
- 10.p.groove {border-style: groove;}
- 11.p.ridge {border-style: ridge;}
- 12.p.inset {border-style: inset;}
- 13.p.outset {border-style: outset;}
- 14.p.hidden {border-style: hidden;}
- 15.</style>
- 16.</head>
- 17.<body>
- 18.<p class="none">No border.</p>
- 19.<p class="dotted">A dotted border.</p>
- 20.<p class="dashed">A dashed border.</p>
- 21.<p class="solid">A solid border.</p>
- 22.<p class="double">A double border.</p>
- 23.<p class="groove">A groove border.</p>
- 24.<p class="ridge">A ridge border.</p>
- 25.<p class="inset">An inset border.</p>
- 26.<p class="outset">An outset border.</p>
- 27.<p class="hidden">A hidden border.</p>
- 28.</body>
- 29.</html>

Output:

No border.

A dotted border.

A dashed border.

A solid border.

A double border.

A groove border.

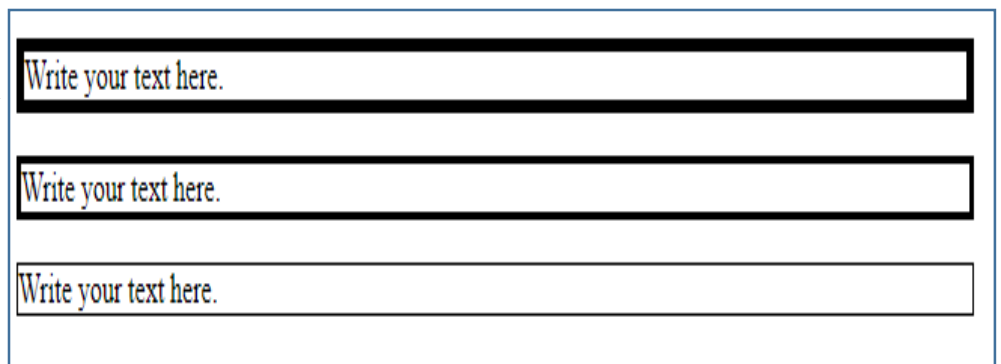
A ridge border.

An inset border.

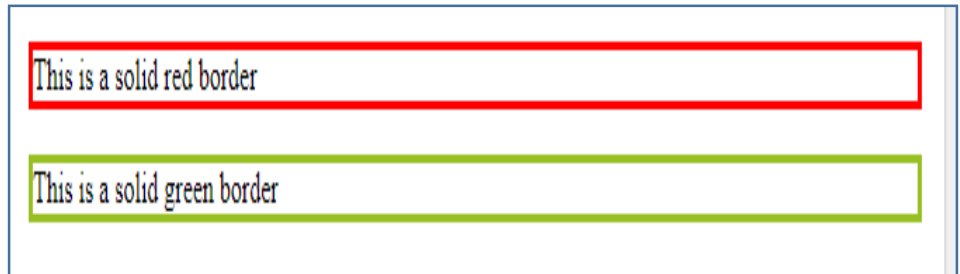
An outset border.

## 2) CSS border-width

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <style>
5. p.one {
6.   border-style: solid;
7.   border-width: 5px;
8. }
9. p.two {
10.   border-style: solid;
11.   border-width: medium;
12. }
13. p.three {
14.   border-style: solid;
15.   border-width: 1px;
16. }
17. </style>
18. </head>
19. <body>
20. <p class="one">Write your text here.</p>
21. <p class="two">Write your text here.</p>
22. <p class="three">Write your text here.</p>
23. </body>
24. </html>



```
25.<!DOCTYPE html>
26.<html>
27.<head>
28.<style>
29.p.one {
30.  border-style: solid;
31.  border-color: red;
32.}
33.p.two {
34.  border-style: solid;
35.  border-color: #98bf21;
36.}
37.</style>
38.</head>
39.<body>
40.<p class="one">This is a solid red border</p>
41.<p class="two">This is a solid green border</p>
42.</body>
43.</html>
```

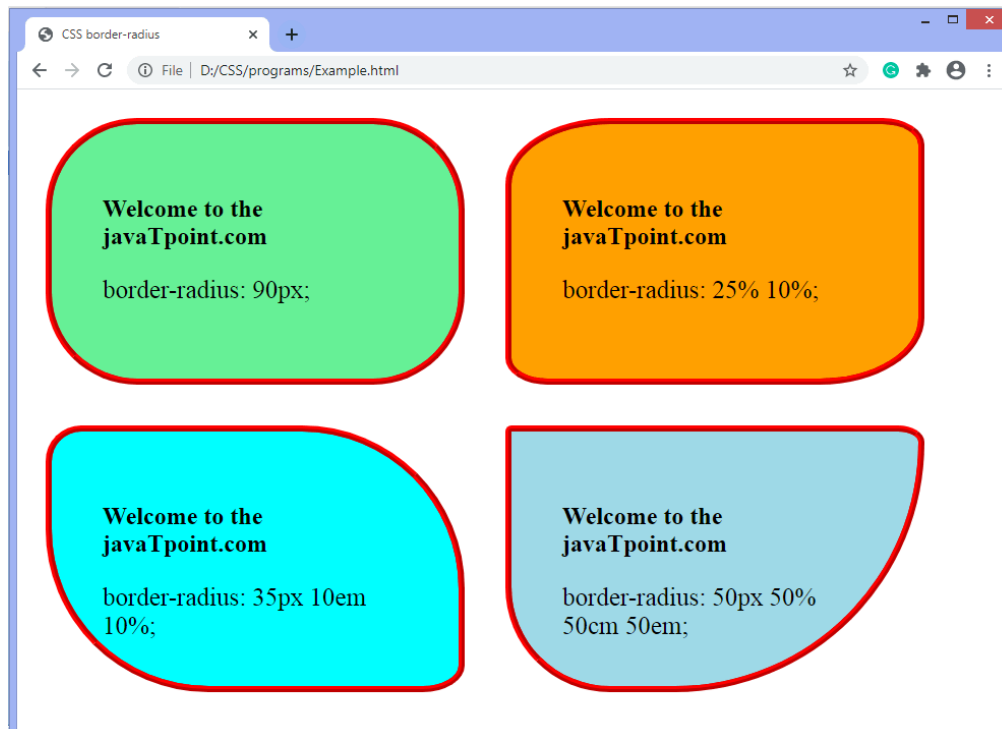


Property	Description
<b>border-top-left-radius</b>	It is used to set the border-radius for the top-left corner
<b>border-top-right-radius</b>	It is used to set the border-radius for the top-right corner
<b>border-bottom-right-radius</b>	It is used to set the border-radius for the bottom-right corner
<b>border-bottom-left-radius</b>	It is used to set the border-radius for the bottom-left corner

**Example**

1. <!DOCTYPE html>
2. <html>
- 3.
4. <head>
5. <title> CSS border-radius </title>
6. <style>
7. div {
8. padding: 50px;
9. margin: 20px;
10. border: 6px ridge red;
11. width: 300px;
12. float: left;
13. height: 150px;
14. }
15. p{
16. font-size: 25px;
17. }
18. #one {
19. border-radius: 90px;
20. background: lightgreen;
21. }
22. #two {
23. border-radius: 25% 10%;
24. background: orange;
25. }
26. #three {
27. border-radius: 35px 10em 10%;
28. background: cyan;
29. }
30. #four {
31. border-radius: 50px 50% 50cm 50em;
32. background: lightblue;
33. }
- 34.
35. </style>
36. </head>

```
37.  
38.<body>  
39.<div id = "one">  
40.<h2> Welcome to the javaTpoint.com </h2>  
41.<p> border-radius: 90px; </p>  
42.</div>  
43.<div id = "two">  
44.<h2> Welcome to the javaTpoint.com </h2>  
45.<p> border-radius: 25% 10%; </p>  
46.</div>  
47.<div id = "three">  
48.<h2> Welcome to the javaTpoint.com </h2>  
49.<p> border-radius: 35px 10em 10%; </p>  
50.</div>  
51.<div id = "four">  
52.<h2>Welcome to the javaTpoint.com</h2>  
53.<p>border-radius: 50px 50% 50cm 50em;</p>  
54.</div>  
55.</body>  
56.</html>
```



**Output**



## Example- border-top-left-radius

It sets the border radius for the top-left corner.

1. `<!DOCTYPE html>`
2. `<html>`
- 3.
4. `<head>`
5. `<title> CSS border-radius </title>`
6. `<style>`
7. `#left {`
8. `border-top-left-radius: 250px;`
9. `background: lightgreen;`
10. `padding: 50px;`
11. `border: 6px ridge red;`
12. `width: 300px;`
13. `height: 200px;`
14. `font-size: 25px;`
15. `}`
16. `</style>`
17. `</head>`
- 18.
19. `<body>`
20. `<center>`
21. `<div id = "left">`
22. `<h2>Welcome to the javaTpoint.com</h2>`
23. `<p>border-top-left-radius: 250px;</p>`
24. `</div>`
25. `</center>`
26. `</body>`
27. `</html>`



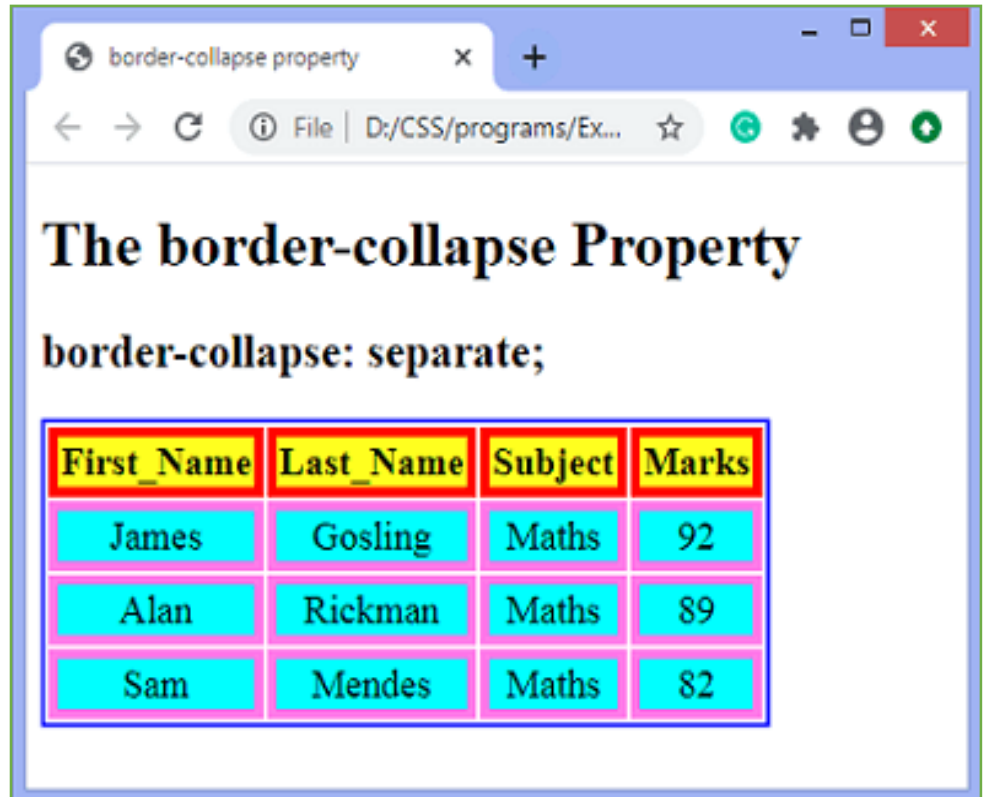
# CSS border-collapse property

## Example - Using separate value

With this value, we can use the **border-spacing** property to set the distance between the adjacent table cells.

1. <!DOCTYPE html>
2. <html>
- 3.
4. <head>
5. <title> border-collapse property </title>
6. <style>
7. table{
8. border: 2px solid blue;
9. text-align: center;
10. font-size: 20px;
11. width: 80%;
12. height: 50%;
13. }
14. th{
15. border: 5px solid red;
16. background-color: yellow;
17. }
18. td{
19. border: 5px solid violet;
20. background-color: cyan;
21. }
22. #t1 {
23. border-collapse: separate;
24. }
25. </style>
26. </head>
- 27.
28. <body>
- 29.
30. <h1> The border-collapse Property </h1>
31. <h2> border-collapse: separate; </h2>

```
32. <table id = "t1">
33. <tr>
34. <th> First_Name </th>
35. <th> Last_Name </th>
36. <th> Subject </th>
37. <th> Marks </th>
38. </tr>
39. <tr>
40. <td> James </td>
41. <td> Gosling </td>
42. <td> Maths </td>
43. <td> 92 </td>
44. </tr>
45. <tr>
46. <td> Alan </td>
47. <td> Rickman </td>
48. <td> Maths </td>
49. <td> 89 </td>
50. </tr>
51. <tr>
52. <td> Sam </td>
53. <td> Mendes </td>
54. <td> Maths </td>
55. <td> 82 </td>
56. </tr>
57. </table>
58. </body>
59.
60. </html>
```



# CSS Cursor

It is used to define the type of mouse cursor when the mouse pointer is on the element. It allows us to specify the cursor type, which will be displayed to the user. When a user hovers on the link, then by default, the cursor transforms into the hand from a pointer.

Let's understand the property values of the cursor.

Values	Usage
<b>alias</b>	It is used to display the indication of the cursor of something that is to be created.
<b>auto</b>	It is the default property in which the browser sets the cursor.
<b>all-scroll</b>	It indicates the scrolling.
<b>col-resize</b>	Using it, the cursor will represent that the column can be horizontally resized.
<b>cell</b>	The cursor will represent that a cell or the collection of cells is selected.
<b>context-menu</b>	It indicates the availability of the context menu.
<b>default</b>	It indicates an arrow, which is the default cursor.
<b>copy</b>	It is used to indicate that something is copied.
<b>crosshair</b>	In it, the cursor changes to the crosshair or the plus sign.
<b>e-resize</b>	It represents the east direction and indicates that the edge of the box is to be shifted towards right.
<b>ew-resize</b>	It represents the east/west direction and indicates a bidirectional resize cursor.

<b>n-resize</b>	It represents the north direction that indicates that the edge of the box is to be shifted to up.
<b>ne-resize</b>	It represents the north/east direction and indicates that the edge of the box is to be shifted towards up and right.
<b>move</b>	It indicates that something is to be shifted.
<b>help</b>	It is in the form of a question mark or ballon, which represents that help is available.
<b>None</b>	It is used to indicate that no cursor is rendered for the element.
<b>No-drop</b>	It is used to represent that the dragged item cannot be dropped here.
<b>s-resize</b>	It indicates an edge box is to be moved down. It indicates the south direction.
<b>Row-resize</b>	It is used to indicate that the row can be vertically resized.
<b>Se-resize</b>	It represents the south/east direction, which indicates that an edge box is to be moved down and right.
<b>Sw-resize</b>	It represents south/west direction and indicates that an edge of the box is to be shifted towards down and left.
<b>Wait</b>	It represents an hourglass.
<b>&lt;url&gt;</b>	It indicates the source of the cursor image file.
<b>w-resize</b>	It indicates the west direction and represents that the edge of the box is to be shifted left.
<b>Zoom-in</b>	It is used to indicate that something can be zoomed in.

**Zoom-out**

It is used to indicate that something can be zoomed out.

The illustration of using the above values of cursor property is given below:

**Example**

1. `<html>`
2. `<head>`
3. `</head>`
4. `<style>`
5. `body{`
6. `background-color: lightblue;`
7. `color:green;`
8. `text-align: center;`
9. `font-size: 20px;`
10. `}`
11. `</style>`
12. `<body>`
13. `<p>`Move your mouse over the below words for the cursor change.`</p>`
14. `<div style = "cursor:alias">`alias Value`</div>`
15. `<div style = "cursor:auto">`auto Value`</div>`
16. `<div style = "cursor:all-scroll">`all-scroll value`</div>`
17. `<div style = "cursor:col-resize">`col-resize value`</div>`
18. `<div style = "cursor:crosshair">`Crosshair`</div>`
19. `<div style = "cursor:default">`Default value`</div>`
20. `<div style = "cursor:copy">`copy value`</div>`
21. `<div style = "cursor:pointer">`Pointer`</div>`
22. `<div style = "cursor:move">`Move`</div>`
23. `<div style = "cursor:e-resize">`e-resize`</div>`
24. `<div style = "cursor:ew-resize">`ew-resize`</div>`
25. `<div style = "cursor:ne-resize">`ne-resize`</div>`
26. `<div style = "cursor:nw-resize">`nw-resize`</div>`
27. `<div style = "cursor:n-resize">`n-resize`</div>`
28. `<div style = "cursor:se-resize">`se-resize`</div>`
29. `<div style = "cursor:sw-resize">`sw-resize`</div>`
30. `<div style = "cursor:s-resize">`s-resize`</div>`
31. `<div style = "cursor:w-resize">`w-resize`</div>`

```
32. <div style = "cursor:text">text</div>
33. <div style = "cursor:wait">wait</div>
34. <div style = "cursor:help">help</div>
35. <div style = "cursor:progress">Progress</div>
36. <div style = "cursor:no-drop">no-drop</div>
37. <div style = "cursor:not-allowed">not-allowed</div>
38. <div style = "cursor:vertical-text">vertical-text</div>
39. <div style = "cursor:zoom-in">Zoom-in</div>
40. <div style = "cursor:zoom-out">Zoom-out</div>
41. </body>
42.</html>
```

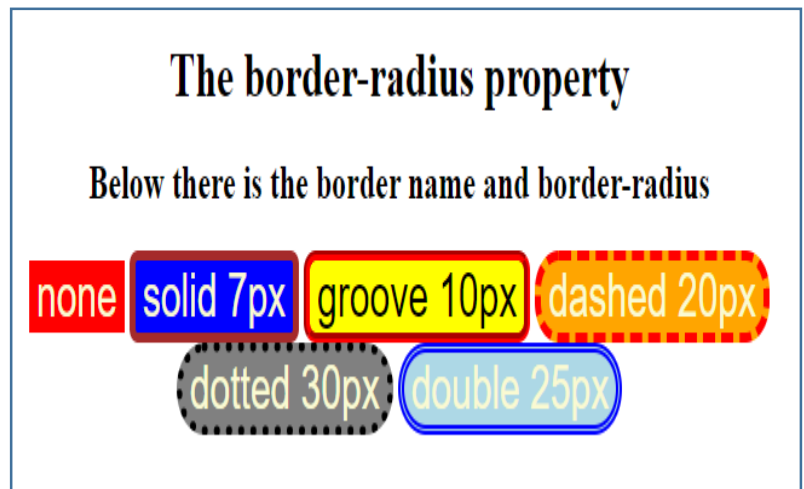
## Css buttons:-

```
1. <!DOCTYPE html>
2. <html>
3.
4. <head>
5.   <title>
6.     button background Color
7.   </title>
8.
9.   <style>
10.  body{
11.    text-align: center;
12.  }
13.  button {
14.    color:lightgoldenrodyellow;
15.    font-size: 30px;
16.  }
17.  .b1 {
18.    background-color: red;
19.    border:none;
20.  }
21.  .b2 {
22.    background-color: blue;
23.    border:5px brown solid;
24.    border-radius: 7px;
```

```

25.     }
26.     .b3 {
27.         background-color: yellow;
28.         color:black;
29.         border:5px red groove;
30.         border-radius: 10px;
31.     }
32.     .b4{
33.         background-color:orange;
34.         border: 5px red dashed;
35.         border-radius: 20px;
36.     }
37.     .b5{
38.         background-color: gray;
39.         border: 5px black dotted;
40.         border-radius: 30px;
41.     }
42.     .b6{
43.         background-color: lightblue;
44.         border:5px blue double;
45.         border-radius: 25px;
46.     }
47. </style>
48.</head>
49.
50.<body>
51. <h1>The border-radius property</h1>
52. <h2>Below there is the border name and border-radius</h2>
53. <button class="b1">none</button>
54. <button class="b2">solid 7px</button>
55. <button class="b3">groove 10px</button>
56. <button class="b4">dashed 20px</button>
57. <button class="b5">dotted 30px</button>
58. <button class="b6">double 25px</button>
59.
60.</body>
61.</html>

```



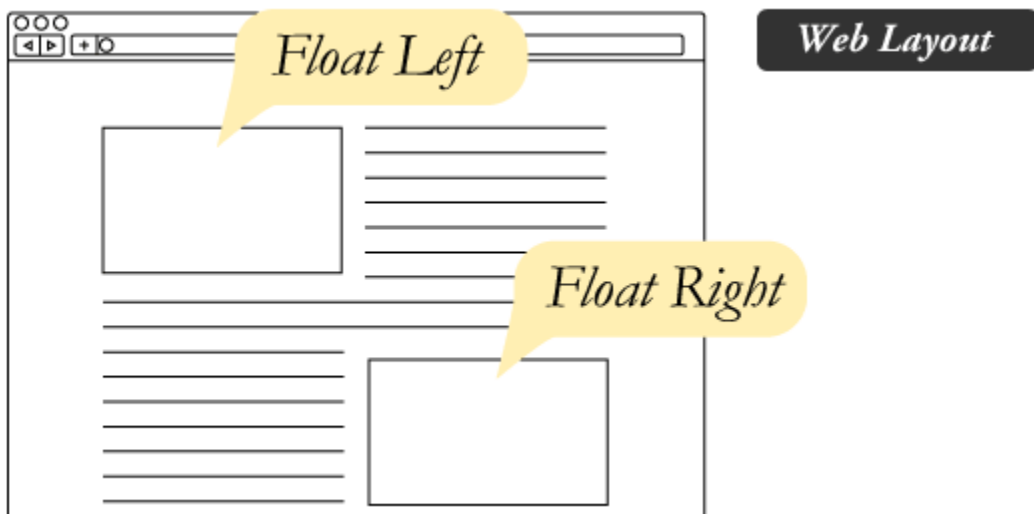


# CSS Float

The **CSS float property** is a *positioning property*. It is used to *push an element to the left or right*, allowing other element to wrap around it. It is generally used with images and layouts.

To understand its purpose and origin, let's take a look to its print display. In the print display, image is set into the page such that text wraps around it as needed.

Property	Description	Values
clear	The clear property is used to avoid elements after the floating elements which flow around it.	left, right, both, none, inherit
float	It specifies whether the box should float or not.	left, right, none, inherit



## CSS Float Properties

Property	Description	Values
clear	The clear property is used to avoid elements after the floating elements which flow around it.	left, right, both, none, inherit

float	It specifies whether the box should float or not.	left, right, none, inherit
-------	---	----------------------------

## CSS Float Property Values

Value	Description
none	It specifies that the element is not floated, and will be displayed just where it occurs in the text. this is a default value.
left	It is used to float the element to the left.
right	It is used to float the element to the right.
initial	It sets the property to its initial value.
inherit	It is used to inherit this property from its parent element.

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `img {`
6. `float: right;`
7. `}`
8. `</style>`
9. `</head>`
10. `<body>`
11. `<p>`The following paragraph contains an image with style
12. `<b>float:right</b>`. The result is that the image will float to the right in the paragraph.  
`</p>`
13. ``
14. This is some text. This is some text. This is some text.
15. This is some text. This is some text. This is some text.
16. This is some text. This is some text. This is some text.



- `<html>`
- `<head>`
- 
- `<style>`
- `body{`
- `text-align:center;`
- `}`
- `a`
- `{`
- `color: red;`
- `}`
- `a:hover`
- `{`
- `color: green;`
- `}`
- `a:active`
- `{`
- `color: cyan;`
- `}`
- `</style>`
- `</head>`
- `<body>`
- `<h1>Move your mouse on the below link to see the hover effect.</h1>`
- `<a class = "link" href = https://www.javatpoint.com/css-grid>CSS Grid</a>`
- `</body>`
- `</html>`

### Example 2: Apply hover on **paragraph**, heading and link

1. `<html>`
2. `<head>`
3. `<style>`
4. `body{`
5. `text-align:center;`
6. `}`
7. `p:hover, h1:hover, a:hover{`

```
8. background-color: yellow;
9. }
10.</style>
11.</head>
12.<body>
13.<h1>Hello World</h1>
14.<p>Welcome to the javaTpoint.</p>
15.<a href='https://www.javatpoint.com/css-grid'>CSS Grid</a>
16.</body>
17.</html>
```

### Example 3- Text overlay on image hover

This CSS code displays the text on the image during mouse hover. Let's see the image overlay effect during mouse hover.

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <meta name="viewport" content="width=device-width, initial-scale=1">
5. <style>
6.   body{
7.     text-align:center;
8.   }
9. * {box-sizing: border-box;}
10.
11..container {
12.  position: relative;
13.  width: 50%;
14.  max-width: 300px;
15.}
16.
17..image {
18.  display: block;
19.  width: 100%;
20.  height: auto;
21.}
22.
```

```
23. .overlay {
24.   position: absolute;
25.   bottom: 0;
26.   background: rgba(0, 0, 0, 0.2);
27.   width: 100%;
28.   opacity: 0;
29.   transition: .9s ease;
30.   font-size: 25px;
31.   padding: 20px;
32. }
33.
34. .container: hover .overlay {
35.   opacity: 1.5;
36. }
37. </style>
38. </head>
39. <body>
40.
41. <h1>Image Overlay Title Effect</h1>
42. <h2>Move your mouse over the image to see the effect.</h2>
43.
44. <center>
45. <div class="container">
46.   
47.   <div class="overlay">Welcome to javaTpoint.com</div>
48. </div> </center>
49.
50.
51. </body>
52. </html>
```

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <meta name="viewport" content="width=device-width, initial-scale=1">
5. <style>
6.   body{
7.     text-align: center;
8.   }
9.   h1 {
10.    border-color: red !important;
11.    border: 5px green solid;
12.    border-color: black;
13.  }
14.  h2{
15.    color: green !important;
16.    color: red;
17.    border-color:violet !important;
18.    border: 5px green solid;
19.  }
20.</style>
21.</head>
22.<body>
23.
24.<h1>Hello World :) :)</h1>
25.<h2>Welcome to the javaTpoint.com</h2>
26.
27.</body>
28.</html>
```



## CSS Layout

**CSS layout** is easy to design. We can use CSS layout to design our web page such as home page, contact us, about us etc.

There are 3 ways to design layout of a web page:

1. **HTML Div with CSS:** fast and widely used now.
2. **HTML Table:** slow and less preferred.

### 3. **HTML Frameset:** deprecated now.

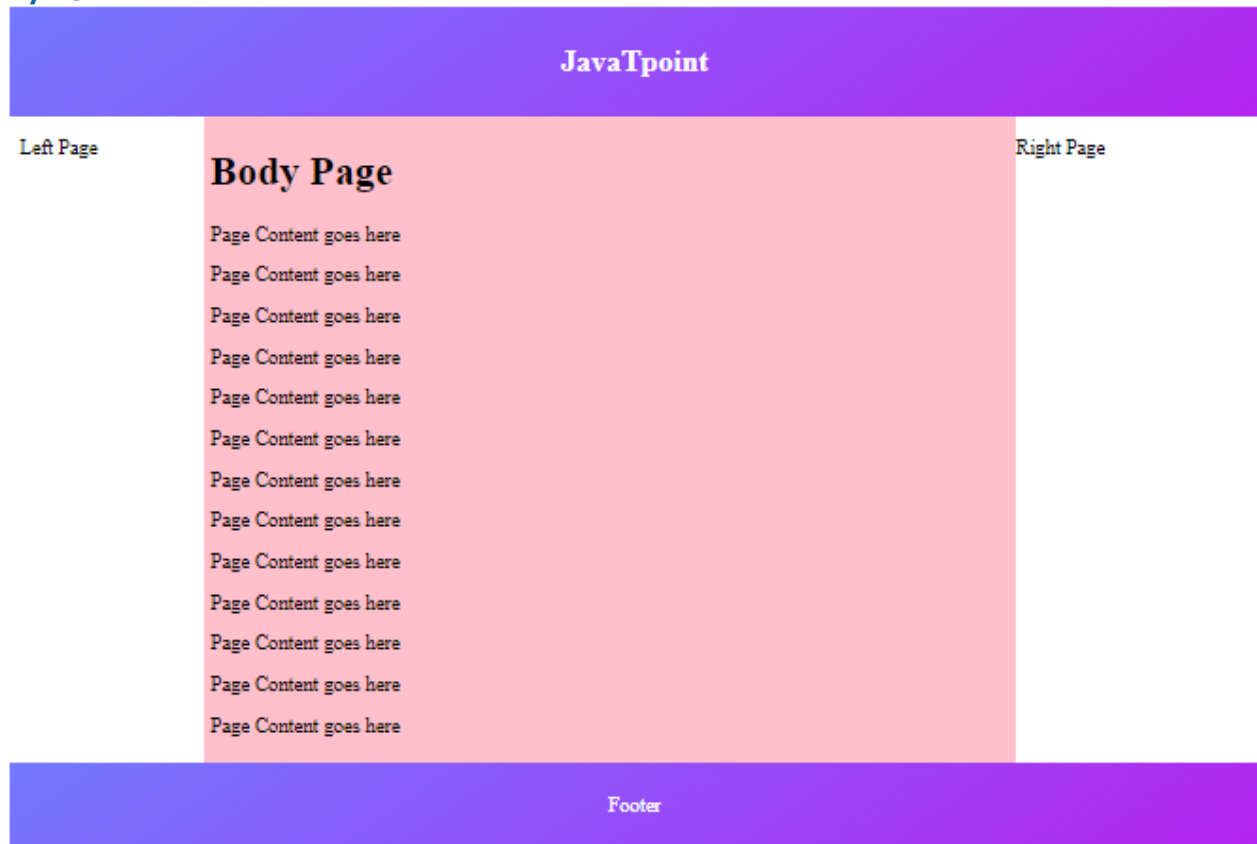
A CSS layout can have header, footer, left pane, right pane and body part. Let's see a simple example of [CSS](#) layout.

## CSS layout example

1. `<!DOCTYPE html>`
2. `<html>`
3. `<head>`
4. `<style>`
5. `.header{margin:-8px -8px 0px;background-image:linear-gradient(145deg,#7379ff,#b524ef);color:white;text-align:center;padding:10px;}`
6. `.container{width:100%}`
7. `.left{width:15%;float:left;}`
8. `.body{width:65%;float:left;background-color:pink;padding:5px;}`
9. `.right{width:15%;float:left;}`
10. `.footer{margin:-8px;clear:both;background-image:linear-gradient(145deg,#7379ff,#b524ef);color:white;text-align:center;padding:10px;}`
11. `</style>`
12. `</head>`
13. `<body>`
14. `<div class="header"><h2>JavaTpoint</h2></div>`
- 15.
16. `<div class="container">`
17. `<div class="left">`
18. `<p>Left Page</p>`
19. `</div>`
20. `<div class="body">`
21. `<h1>Body Page</h1>`
22. `<p>Page Content goes here</p><p>Page Content goes here</p><p>Page Content goes here</p>`
23. `<p>Page Content goes here</p><p>Page Content goes here</p><p>Page Content goes here</p>`
24. `<p>Page Content goes here</p><p>Page Content goes here</p><p>Page Content goes here</p>`
25. `<p>Page Content goes here</p><p>Page Content goes here</p><p>Page Content goes here</p>`



- 26. `<p>Page Content goes here</p>`
- 27. `</div>`
- 28. `<div class="right">`
- 29. `<p>Right Page</p>`
- 30. `</div>`
- 31. `</div>`
- 32.
- 33. `<div class="footer">`
- 34. `<p>Footer</p>`
- 35. `</div>`
- 36.
- 37. `</body>`
- 38. `</html>`



```
<!DOCTYPE html>
<html lang="en">
<head>
<title>CSS Website Layout</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {
  box-sizing: border-box;
}

body {
  margin: 0;
}

/* Style the header */
.header {
  background-color: #f1f1f1;
  padding: 20px;
  text-align: center;
}

/* Style the top navigation bar */
.topnav {
  overflow: hidden;
  background-color: #333;
}
```

```
/* Style the topnav links */
```

```
.topnav a {  
  float: left;  
  display: block;  
  color: #f2f2f2;  
  text-align: center;  
  padding: 14px 16px;  
  text-decoration: none;  
}
```

```
/* Change color on hover */
```

```
.topnav a:hover {  
  background-color: #ddd;  
  color: black;  
}
```

```
/* Create three equal columns that floats next to each other */
```

```
.column {  
  float: left;  
  width: 33.33%;  
  padding: 15px;  
}
```

```
/* Clear floats after the columns */
```

```
.row:after {  
  content: "";  
  display: table;  
  clear: both;
```

```
}
```

```
/* Responsive layout - makes the three columns stack on top of each other instead of  
next to each other */
```

```
@media screen and (max-width:600px) {
```

```
  .column {
```

```
    width: 100%;
```

```
  }
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
  <h1>Header</h1>
```

```
  <p>Resize the browser window to see the responsive effect.</p>
```

```
</div>
```

```
<div class="topnav">
```

```
  <a href="#">Link</a>
```

```
  <a href="#">Link</a>
```

```
  <a href="#">Link</a>
```

```
</div>
```

```
<div class="row">
```

```
  <div class="column">
```

```
    <h2>Column</h2>
```

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique. Quisque vehicula, risus eget aliquam placerat, purus leo tincidunt eros, eget luctus quam orci in velit. Praesent scelerisque tortor sed accumsan convallis.</p>
```

```
</div>
```

```
<div class="column">
```

```
<h2>Column</h2>
```

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique. Quisque vehicula, risus eget aliquam placerat, purus leo tincidunt eros, eget luctus quam orci in velit. Praesent scelerisque tortor sed accumsan convallis.</p>
```

```
</div>
```

```
<div class="column">
```

```
<h2>Column</h2>
```

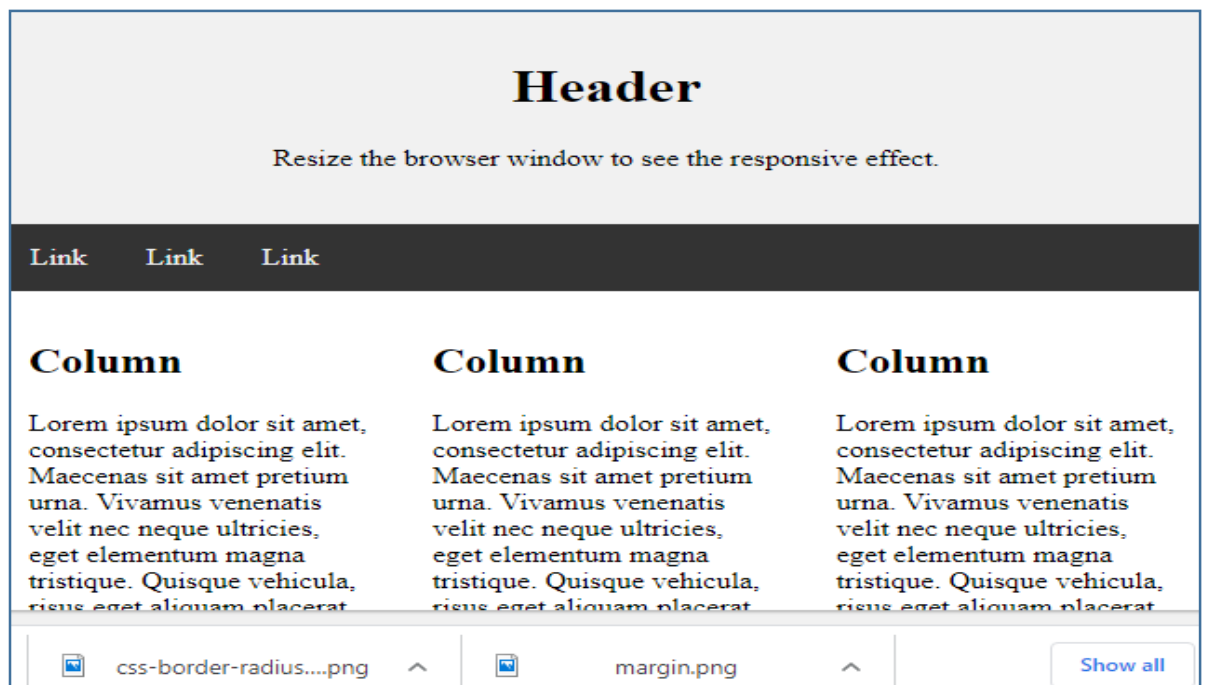
```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique. Quisque vehicula, risus eget aliquam placerat, purus leo tincidunt eros, eget luctus quam orci in velit. Praesent scelerisque tortor sed accumsan convallis.</p>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```



```
<!DOCTYPE html>
<html>

  <head>
    <title>HTML Layouts using DIV, SPAN</title>
  </head>

  <body>
    <div style = "width:100%">

      <div style = "background-color:#b5dcb3; width:100%">
        <h1>This is Web Page Main title</h1>
      </div>

      <div style = "background-color:#aaa; height:200px;
width:100px; float:left;">
        <div><b>Main Menu</b></div>
        HTML<br />
        PHP<br />
        PERL...
      </div>

      <div style = "background-color:#eee; height:200px;
width:350px; float:left;" >
        <p>Technical and Managerial Tutorials</p>
      </div>

      <div style = "background-color:#aaa; height:200px;
width:100px; float:right;">
        <div><b>Right Menu</b></div>
        HTML<br />
        PHP<br />
        PERL...
      </div>

      <div style = "background-color:#b5dcb3; clear:both">
        <center>
          Copyright © 2007 Tutorialspoint.com
        </center>
      </div>

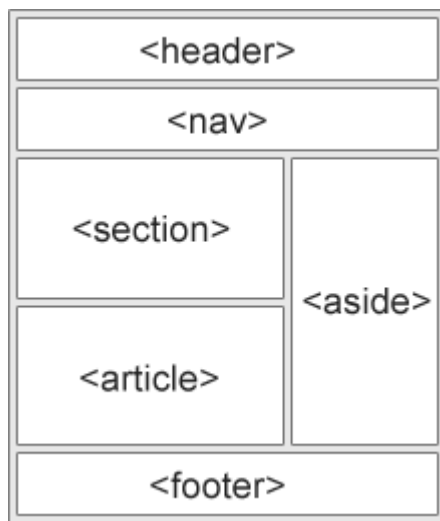
    </div>
  </body>
</html>
```

## This is Web Page Main title



# HTML Layout Elements

HTML has several semantic elements that define the different parts of a web page:



- `<header>` - Defines a header for a document or a section
- `<nav>` - Defines a set of navigation links
- `<section>` - Defines a section in a document
- `<article>` - Defines an independent, self-contained content
- `<aside>` - Defines content aside from the content (like a sidebar)
- `<footer>` - Defines a footer for a document or a section
- `<details>` - Defines additional details that the user can open and close on demand
- `<summary>` - Defines a heading for the `<details>` element

You can read more about semantic elements in our [HTML Semantics](#) chapter.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<style>
```

```
* {
```

```
  box-sizing: border-box;
```

```
}
```

```
/* Create three equal columns that floats next to each other */
```

```
.column {  
  float: left;  
  width: 33.33%;  
  padding: 10px;  
  height: 300px; /* Should be removed. Only for demonstration */  
}
```

```
/* Clear floats after the columns */
```

```
.row:after {  
  content: "";  
  display: table;  
  clear: both;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Three Equal Columns</h2>
```

```
<div class="row">
```

```
  <div class="column" style="background-color: #aaa;">
```

```
    <h2>Column 1</h2>
```

```
    <p>Some text..</p>
```

```
  </div>
```

```
  <div class="column" style="background-color: #bbb;">
```

```
    <h2>Column 2</h2>
```

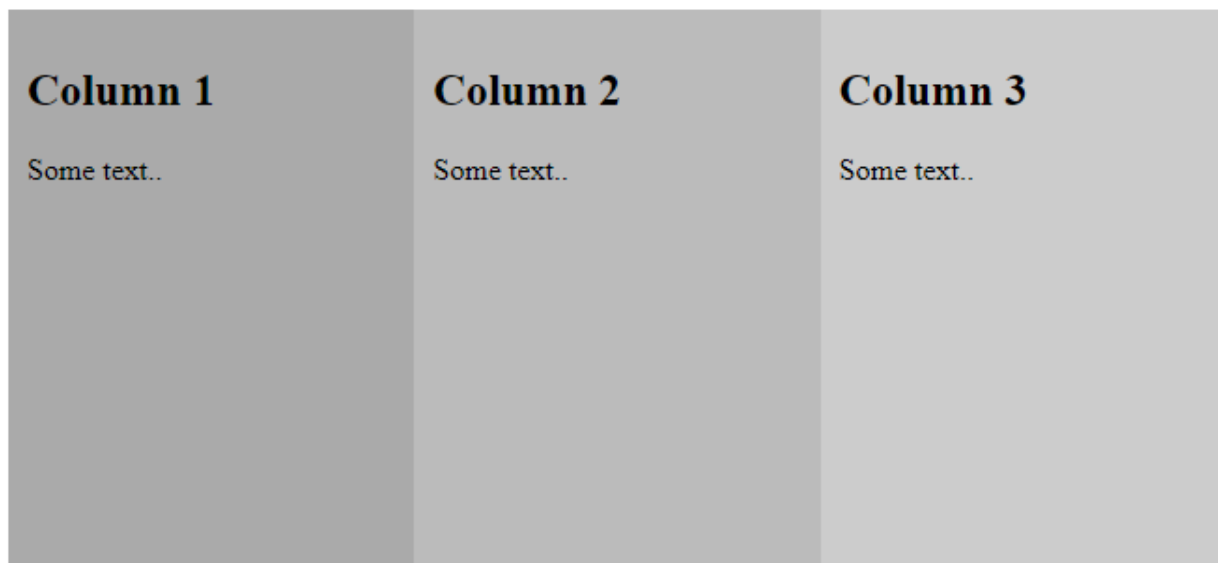
```
    <p>Some text..</p>
```



```
</div>
<div class="column" style="background-color:#ccc;">
  <h2>Column 3</h2>
  <p>Some text..</p>
</div>
</div>

</body>
</html>
```

## Three Equal Columns



```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Website Layout
    </title>
    <style>
      * {
        box-sizing: border-box;
      }

      /* CSS property for header section */
      .header {
        background-color: green;
        padding: 15px;
        text-align: center;
      }
    </style>
  </head>
  <body>
    <div class="header">
      <h1>Website Layout</h1>
    </div>
    <div class="column">
      <h2>Column 1</h2>
      <p>Some text..</p>
    </div>
    <div class="column">
      <h2>Column 2</h2>
      <p>Some text..</p>
    </div>
    <div class="column">
      <h2>Column 3</h2>
      <p>Some text..</p>
    </div>
  </body>
</html>
```

```
    }

    /* CSS property for nevigation menu */
    .nav_menu {
        overflow: hidden;
        background-color: #333;
    }
    .nav_menu a {
        float: left;
        display: block;
        color: white;
        text-align: center;
        padding: 14px 16px;
        text-decoration: none;
    }
    .nav_menu a:hover {
        background-color: white;
        color: green;
    }
    }

    /* CSS property for content section */
    .columnA, .columnB, .columnC {
        float: left;
        width: 31%;
        padding: 15px;
        text-align: justify;
    }
    h2 {
        color: green;
        text-align: center;
    }
    }

    /* Media query to set website layout
    according to screen size */
    @media screen and (max-width:600px) {
        .columnA, .columnB, .columnC {
            width: 50%;
        }
    }
    @media screen and (max-width:400px) {
        .columnA, .columnB, .columnC {
            width: 100%;
        }
    }
}
</style>
</head>

<body>

    <!-- header of website layout -->
    <div class = "header">
        <h2 style = "color:white;font-size:200%">
            GeeksforGeeks
        </h2>
    </div>

    <!-- nevigation menu of website layout -->
    <div class = "nav_menu">
        <a href = "#">Algo</a>
```

```
<a href = "#">DS</a>
<a href = "#">Language</a>
</div>

<!-- Content section of website layout -->
<div class = "row">

  <div class = "columnA">
    <h2>Column A</h2>
    <p>Prepare for the Recruitment drive of product
    based companies like Microsoft, Amazon, Adobe
    etc with a free online placement preparation
    course. The course focuses on various MCQ's
    & Coding question likely to be asked in the
    interviews & make your upcoming placement
    season efficient and successful.</p>
  </div>

  <div class = "columnB">
    <h2>Column B</h2>
    <p>Prepare for the Recruitment drive of product
    based companies like Microsoft, Amazon, Adobe
    etc with a free online placement preparation
    course. The course focuses on various MCQ's
    & Coding question likely to be asked in the
    interviews & make your upcoming placement
    season efficient and successful.</p>
  </div>

  <div class = "columnC">
    <h2>Column C</h2>
    <p>Prepare for the Recruitment drive of product
    based companies like Microsoft, Amazon, Adobe
    etc with a free online placement preparation
    course. The course focuses on various MCQ's
    & Coding question likely to be asked in the
    interviews & make your upcoming placement
    season efficient and successful.</p>
  </div>
</div>
</body>
</html>
```



Algo DS Language

### Column A

Prepare for the Recruitment drive of product based companies like Microsoft, Amazon, Adobe etc with a free online placement preparation course. The course focuses on various MCQ's & Coding question likely to be asked in the interviews & make your upcoming placement season efficient and successful.

### Column B

Prepare for the Recruitment drive of product based companies like Microsoft, Amazon, Adobe etc with a free online placement preparation course. The course focuses on various MCQ's & Coding question likely to be asked in the interviews & make your upcoming placement season efficient and successful.

### Column C

Prepare for the Recruitment drive of product based companies like Microsoft, Amazon, Adobe etc with a free online placement preparation course. The course focuses on various MCQ's & Coding question likely to be asked in the interviews & make your upcoming placement season efficient and successful.

