

## HTML

=====

HTML stands for Hypertext Markup Language.

It is a widely used language on web to develop web pages and web applications.

It is a case insensitive language.

It is developed by Burner's Lee in late 1991.

It is a tag-based language.

Every tag contains opening tag and closing tag.

ex:

```
<html> - opening tag
```

```
</html> - closing tag
```

In html we can't create custom tags.

Every tag contains attribute and each attribute contains name and value.

ex:

```
<body bgcolor="red">
```

```
</body>
```

A tag can have multiple attributes and each attribute must be seperated with space.

ex:

```
<body bgcolor="value" background="">
```

```
</body>
```

All HTML documents we need to save with ".html" or ".htm" extension.

All HTML documents will execute in a browser window.

ex:

Chrome

Mozilla

Microsoft Edge

Opera

IE

Chromium and etc.

HTML is used to create client-side components.

A simple HTML document is known as component.

HTML2.0 specification was released in the year of 1995.

HTML4.0 specification was released in the year of 1999.

HTML5 which is a extension of HTML4.0 was released in the year of 2005.

The main objective of HTML5 is to create light weight components.

HTML5 is also known as Advanced Hypertext Markup Language.

### Simple Skeleton for HTML document

=====

```
<!DOCTYPE>
```

```
<HTML>
```

```
<HEAD>
```

```
- // head related tags
```

```
</HEAD>
```

```
<BODY>
```

```
- // body related tags
```

```
</BODY>
```

```
</HTML>
```

Note: Here <!DOCTYPE> represent HTML document.

## Simple Skeleton for HTML5 document

```
=====
<!DOCTYPE html>
<HTML>
  <HEAD>
    - // head related tags
  </HEAD>
  <BODY>
    - // body related tags
  </BODY>
</HTML>
```

Note: Here <!DOCTYPE html> represent HTML5 document.

<html> tag

-----

It is a root tag for entire html document.

It contains two child tags.

ex:

```
<head> tag
<body> tag
```

<head> tag

-----

A <head> tag is used to declare following things.

ex:

- 1) title of a page
- 2) favicon of a page
- 3) metadata of a page
- 4) styles
- 5) scripts

<body> tag

-----

A <body> tag contains actual content of a web page.

Note: All the above tags are optional.

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>

  </head>
  <body>
    Welcome to HTML class
  </body>
</html>
```

### **Q) How to add title to a web page ?**

---

A <title> tag is used to add the title to a web page.

A <title> tag is used to declare inside <head> tag.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Welcome to HTML class
  </body>
</html>
```

### **Q) How to add the favicon to a web page?**

---

A <link> tag is used to add the favicon to a web page.

A <link> tag we need to declare inside <head> tag.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>

    <link rel="icon" href="images/facebook.png">
  </head>
  <body>
    Welcome to HTML class
  </body>
</html>
```

### **Q) How to change the background color?**

---

To change the background color we need to use bgcolor attribute of <body> tag.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>

    <link rel="icon" href="images/facebook.png">
  </head>
  <body bgcolor="yellow">
    Welcome to HTML class
  </body>
</html>
```

## Q) How to add background image in a html document?

-----

To set background image in a web page we need to use background attribute of <body> tag.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>

    <link rel="icon" href="images/facebook.png">
  </head>
  <body background="images/bg.jpg">
    Welcome to HTML class
  </body>
</html>
```

## HTML comments

=====

Comments are created for documentation purpose.  
Comments are used to improve readability of our code.  
Comments will not displayed on the browser window.  
HTML support only one comment.

syntax:

```
<!-- comment here -->
```

ex:

```
----
<!DOCTYPE html>
<html>
  <head>
    <!-- title of page -->
    <title>IHUBTALENT</title>

    <!-- favicon -->
    <link rel="icon" href="images/facebook.png">
  </head>
  <body>

    <!-- custom msg -->
    Welcome to HTML class
  </body>
</html>
```

## Meta tag in HTML

=====

A <meta> tag is used to describe metadata of a document.  
Here metadata means data of a data.  
Metadata used by browser window, search engine and other web services.  
A <meta> tag must be used inside <head> tag.  
We can use <meta> to declare following things.

- 1)Description
- 2)Author

3)Keywords  
4)viewport  
5)refresh  
6)copyright  
and etc.

## UTF-8

UTF stands for Unicode Transformation Format.  
It is a encoding method which describes what characters set a website is written with.

ex:

```
<meta charset="UTF-8">
```

## 1)Description

It is used to add description to the web page.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- title of a page -->
    <title>IHUBTALENT</title>

    <!-- favicon of a page -->
    <link rel="icon" href="images/logo.png">

    <!-- meta tag -->
    <meta charset="UTF-8">
    <meta name="description" content="NIYAZ Sir classes on HTML">
  </head>
  <body>
    <!-- simple msg to display -->
    Welcome to HTML Classes
  </body>
</html>
```

## 2)Author

It is used to declare author.

ex:<!DOCTYPE html>

```
<html>
  <head>
    <!-- title of a page -->
    <title>IHUBTALENT</title>

    <!-- favicon of a page -->
    <link rel="icon" href="images/logo.png">

    <!-- meta tag -->
    <meta charset="UTF-8">
    <meta name="description" content="NIYAZ Sir classes on HTML">
    <meta name="author" content="IHUB TALENT">
  </head>
  <body>
    <!-- simple msg to display -->
    Welcome to HTML Classes
  </body>
</html>
```

### 3)Keywords

-----

It is used to declare keywords.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- title of a page -->
    <title>IHUBTALENT</title>

    <!-- favicon of a page -->
    <link rel="icon" href="images/logo.png">

    <!-- meta tag -->
    <meta charset="UTF-8">
    <meta name="description" content="NIYAZ Sir classes on HTML">
    <meta name="author" content="IHUB TALENT">
    <meta name="keywords" content="HTML,CSS,JAVASCRIPT,Bootstrap">
  </head>
  <body>
    <!-- simple msg to display -->
    Welcome to HTML Classes
  </body>
</html>
```

### 4)viewport

-----

It is used to create make our design as responsive.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- title of a page -->
    <title>IHUBTALENT</title>

    <!-- favicon of a page -->
    <link rel="icon" href="images/logo.png">

    <!-- meta tag -->
    <meta charset="UTF-8">
    <meta name="description" content="NIYAZ Sir classes on HTML">
    <meta name="author" content="IHUB TALENT">
    <meta name="keywords" content="HTML,CSS,JAVASCRIPT,Bootstrap">
    <meta name="viewport" content="width=device-width,initial-scale=1">
  </head>
  <body>
    <!-- simple msg to display -->
    Welcome to HTML Classes
  </body>
</html>
```

### 5)refresh

-----

It is used to refresh the page after given seconds.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- title of a page -->
    <title>IHUBTALENT</title>
```

```

        <!-- favicon of a page -->
        <link rel="icon" href="images/logo.png">

        <!-- meta tag -->
        <meta charset="UTF-8">
        <meta name="description" content="NIYAZ Sir classes on HTML">
        <meta name="author" content="IHUB TALENT">
        <meta name="keywords" content="HTML,CSS,JAVASCRIPT,Bootstrap">
        <meta name="viewport" content="width=device-width,initial-scale=1">
        <meta http-equiv="refresh" content="05">
    </head>
    <body>
        <!-- simple msg to display -->
        Welcome to HTML Classes
    </body>
</html>

```

## 6)copyright

```

-----
<!DOCTYPE html>
<html>
    <head>
        <!-- title of a page -->
        <title>IHUBTALENT</title>

        <!-- favicon of a page -->
        <link rel="icon" href="images/logo.png">

        <!-- meta tag -->
        <meta charset="UTF-8">
        <meta name="description" content="NIYAZ Sir classes on HTML">
        <meta name="author" content="IHUB TALENT">
        <meta name="keywords" content="HTML,CSS,JAVASCRIPT,Bootstrap">
        <meta name="viewport" content="width=device-width,initial-scale=1">
        <meta http-equiv="refresh" content="05">
        <meta name="copyright" content="copyright by IHUB TALENT">
    </head>
    <body>
        <!-- simple msg to display -->
        Welcome to HTML Classes
    </body>
</html>

```

## Basic tags of HTML

### Heading tag

It is used to declare a heading in a web page.

We have six heading tags from h1 to h6.

Heading tag will display the text in bold and size of the text depending upon the number of heading tag.

ex:

```

---
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <h1>This Heading1 Tag</h1>
    </body>
</html>

```

```

        <h2>This Heading1 Tag</h2>
        <h3>This Heading1 Tag</h3>
        <h4>This Heading1 Tag</h4>
        <h5>This Heading1 Tag</h5>
        <h6>This Heading1 Tag</h6>
    </body>
</html>

```

### Paragraph tag

A <p> tag is used to declare a paragraph in a web page.

ex:

```

<!DOCTYPE html>
<html>

```

```

    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <p>

```

Our expert team has done all the hard work and knowledge sharing to accomplish various levels of application development projects.

```

        </p>
    </body>
</html>

```

### Breakline tag

A <br> tag is used to break the line in a web page.

ex:

```

<!DOCTYPE html>
<html>

```

```

    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Welcome to IHUB TALENT MANAGEMENT
        <br>
        This Is HTML class
    </body>

```

```

</html>

```

### bold tag

A <b> tag is used to display the text in bold without importance.

ex:

```

<!DOCTYPE html>
<html>

```

```

    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <b>This is HTML classes for IHUB students</b>
    </body>

```

```

</html>

```

### strong tag

A <strong> tag is used to display the text in bold with importance.

ex:

```

<!DOCTYPE html>
<html>

```

```

    <head>
        <title>IHUBTALENT</title>

```



```
        </head>
        <body>
            <strong>This is HTML classes for IHUB students</strong>
        </body>
</html>
```

### **italic tag**

-----

A <i> tag is used to display the text in italic without force.

ex:

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <i>Welcome to Niyaz Sir class</i>
    </body>
</html>
```

### **emphasize tag**

-----

A <em> tag is used to display the text in italic with force.

ex:

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <em>Welcome to Niyaz Sir class</em>
    </body>
</html>
```

### **underline tag**

-----

A <u> tag is used to display the text in underline.

HTML5 does not support <u> tag.

ex:

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <u>This is HTML class</u>
    </body>
</html>
```

### **center tag**

-----

A <center> tag is used to display the text in a center.

HTML5 does not support <center> tag.

ex:

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <center>This is HTML class</center>
    </body>
</html>
```

## Marquee tag

-----

A <marquee> tag is used to display the text with scroll.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <marquee>
      Welcome to IHUB TALENT MANAGEMENT training center
    </marquee>
  </body>
</html>
```

## Horizontal tag

-----

A <hr> tag is used to declare a horizontal line.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <p>Ihub Talent Management</p>
    <hr>
    <p>Quality Thought</p>
  </body>
</html>
```

## font tag

-----

A <font> tag is used to display the text in color.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <font color="blue">
      This is font tag
    </font>
  </body>
</html>
```

## Nested Tags in HTML

=====

We can declare nested tags in html.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
```

```

        <center>
            <h1>
                <font color="red">
                    ReactJs is a FrontEnd JavaScript Library
                </font>
            </h1>
        </center>
    </body>
</html>

```

## Phrase Tags in HTML

---

Phrase tags are special purpose tags which defines structural meaning to the block of text or content. We have following list of phrase tags.

- 1) Abbreviation - <abbr>
  - 2) short quote - <q>
  - 3) address - <address>
  - 4) code - <code>
  - 5) keyboard - <kbd>
  - 6) Strike - <strike> or <s>
- and etc.

### 1) Abbreviation - <abbr>

---

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <abbr title="HyperText Markup Language">HTML</abbr>
        is a widely used language on web.
    </body>
</html>

```

### 2) short quote - <q>

---

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <q>HTML is used to develop web pages and web applications. </q>
    </body>
</html>

```

### 3) address - <address>

---

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <address>
            1-4-654/1 , Nilgiri Block, Ameerpet, Hyderabad, 500036.
        </adresa>
    </body>
</html>

```

#### 4) code - <code>

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <code>
        void main()
        {
            clrscr();
            printf("Hello World");
            getch();
        }
        </code>
    </body>
</html>
```

#### 5) keyboard - <kbd>

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        To copy press <kbd> CTRL+C </kbd> button
    </body>
</html>
```

#### 6) Strike - <strike> or <s>

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <strike>This is HTML class</strike>
        <br>
        <s>This is website development class</s>
    </body>
</html>
```

### Interview Question

#### Q)Types of tags in html?

We have two types of tags in html.

##### 1)paired tags / container tags

It contains opening tag and closing tag.

ex:

<h1>,<p>,<body>,<head>,<html> and etc.

##### 2)Unpaired tags / Empty tags

It contains only opening tag and does not have closing tag.

ex:

<br> , <hr> , <link> , <meta> , <img> and etc

## HTML colors

There are four ways to provide the color name in HTML.

- 1) valid color name
- 2) Hexa value
- 3) rgb value
- 4) hsl value

### valid color name

ex:1

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body bgcolor="cyan">
    <h1>This is heading tag</h1>
  </body>
</html>
```

ex:2

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <font color="violet">
      <h1>This is heading tag</h1>
    </font>
  </body>
</html>
```

### hexa value

ex:1

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body bgcolor="#FFFF00">
    <h1>This is heading tag</h1>
  </body>
</html>
```

ex:2

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
```

```

        <font color="#FF0000">
        <h1>This is heading tag</h1>
        </font>
    </body>
</html>

```

### rgb value

-----

rgb value does not support in HTML.

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body bgcolor="rgb(255,0,0)">

        <h1>This is heading tag</h1>

    </body>
</html>

```

### hsl value

-----

hsl value does not support in html.

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body bgcolor="hsl(240, 100%, 50%)">

        <h1>This is heading tag</h1>

    </body>
</html>

```

### HTML Images

=====

A <img> tag is used to display the images in a web page.

It is a empty tag , it contains only attributes and does not have any closing tag.

A <img> tag contains following attributes.

- 1)src - It specifies location/path of an image.
- 2)width - It specifies width of an image.
- 3)height - It specifies height of an image.
- 4)alt - It is used to display alternate text if image is not found.

Abbreviation	Format
-----	-----
JPEG	Joint Photographic ExperGroup
PNG	Portable Network Graphics
GIF	Graphical Interchange Format
SVG	Scalable Vector Graphics
and etc	

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    
  </body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    
  </body>
</html>
```

## HTML Hyperlinks

=====

A <a> anchor tag is used to defined hyperlinks in HTML document.

A <a> tag contains one attribute called "href", it is used to navigate to other resources/pages.

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
```

```

        <a href="http://www.google.com">
            clickMe
        </a>
    </body>
</html>

```

A linked document opens in a current window.

In order to change this behaviour we need to use another attribute called "target".

A "target" attribute specifies where a linked document must be opened.

A "target" attribute may contain following values.

ex:

- 1) \_self : It will open linked document in a current window/tab.
- 2) \_blank : It will open linked document in a new window/tab.
- 3) \_parent : It is used to open linked document in a parent container.
- 4) \_top : It will open linked document in a full body of a window.

ex:2

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <a href="http://www.google.com" target="_self">
            clickMe
        </a>
    </body>
</html>

```

ex:3

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <a href="http://www.google.com" target="_blank">
            clickMe
        </a>
    </body>
</html>

```

### Hyperlink with image

```

=====
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <center>
            <a href="http://www.facebook.com/login" target="_blank">
                
            </a>
        </center>
    </body>
</html>

```



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

## Orderlist in HTML

=====

A <ol> tag is used to define orlist in HTML with numerics and alphabets.

An orderlist contains list of items.

Each list of item we can represent by using <li> tag.

ex:1

```
----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol>
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
    </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol start="101">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
    </body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol type="i">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
    </body>
</html>
```

ex:4

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol type="I">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
  </body>
</html>
```

ex:5

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol type="a">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
  </body>
</html>
```

ex:6

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ol type="A">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ol>
  </body>
</html>
```

## Unoderlist in HTML

=====

A <ul> tag is used to define unoder list in HTML with bullets.  
An unoderlist contains list of items.  
Each list of item we need to represent by using <li> tag.

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ul type="disc">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ul>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ul type="circle">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ul>
  </body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Courses:
      <ul type="square">
        <li>Java</li>
        <li>ReactJS</li>
        <li>Oracle</li>
        <li>Frameworks</li>
      </ul>
  </body>
</html>
```

## > Tables

### =====

### HTML Tables

### =====

Table is used to represent the data.

Table is a collection of rows and columns.

Table is used to store the data.

A <table> tag is used to represent table in HTML.

A <tr> tag is used to represent table row.

A <th> tag is used to represent table heading.

A <td> tag is used to represent table data.

Table headings are centered and bold.

Table data are left aligned and normal.

ex:1

```
----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <table>
      <tr>
        <th>ID</th>
        <th>NAME</th>
        <th>EMAIL</th>
      </tr>
      <tr>
        <td>101</td>
        <td>Alan</td>
        <td>alan@gmail.com</td>
      </tr>
      <tr>
        <td>102</td>
        <td>Jose</td>
        <td>jose@yahoo.com</td>
      </tr>
      <tr>
        <td>103</td>
        <td>Mark</td>
        <td>mark@zoho.com</td>
      </tr>
      <tr>
        <td>104</td>
        <td>Kelvin</td>
        <td>kelvin@outlook.com</td>
      </tr>
      <tr>
        <td>105</td>
        <td>Peter</td>
        <td>peter@rediff.com</td>
      </tr>
    </table>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <table border="1" width="100%">
      <tr>
```

```

        <th>ID</th>
        <th>NAME</th>
        <th>EMAIL</th>
    </tr>
    <tr>
        <td>101</td>
        <td>Alan</td>
        <td>alan@gmail.com</td>
    </tr>
    <tr>
        <td>102</td>
        <td>Jose</td>
        <td>jose@yahoo.com</td>
    </tr>
    <tr>
        <td>103</td>
        <td>Mark</td>
        <td>mark@zoho.com</td>
    </tr>
    <tr>
        <td>104</td>
        <td>Kelvin</td>
        <td>kelvin@outlook.com</td>
    </tr>
    <tr>
        <td>105</td>
        <td>Peter</td>
        <td>peter@rediff.com</td>
    </tr>
</table>
</body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <table border="1" width="100%">
            <caption>Employee Details</caption>
            <tr>
                <th>ID</th>
                <th>NAME</th>
                <th>EMAIL</th>
            </tr>
            <tr>
                <td>101</td>
                <td>Alan</td>
                <td>alan@gmail.com</td>
            </tr>
            <tr>
                <td>102</td>
                <td>Jose</td>
                <td>jose@yahoo.com</td>
            </tr>
            <tr>
                <td>103</td>
                <td>Mark</td>

```

```

        <td>mark@zoho.com</td>
      </tr>
    </tr>
    <td>104</td>
    <td>Kelvin</td>
    <td>kelvin@outlook.com</td>
  </tr>
  <tr>
    <td>105</td>
    <td>Peter</td>
    <td>peter@rediff.com</td>
  </tr>
</table>
</body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <table border="1" cellspacing="10px" cellpadding="10px">
      <caption>Employee Details</caption>
      <tr>
        <th>ID</th>
        <th>NAME</th>
        <th>EMAIL</th>
      </tr>
      <tr>
        <td>101</td>
        <td>Alan</td>
        <td>alan@gmail.com</td>
      </tr>
      <tr>
        <td>102</td>
        <td>Jose</td>
        <td>jose@yahoo.com</td>
      </tr>
      <tr>
        <td>103</td>
        <td>Mark</td>
        <td>mark@zoho.com</td>
      </tr>
      <tr>
        <td>104</td>
        <td>Kelvin</td>
        <td>kelvin@outlook.com</td>
      </tr>
      <tr>
        <td>105</td>
        <td>Peter</td>
        <td>peter@rediff.com</td>
      </tr>
    </table>
  </body>
</html>

```

## Interview Questions

---

### Q)Types of elements in HTML ?

We have two types of elements.

- 1)Block elements
- 2)Inline elements

#### 1)Block elements

---

Block elements always starts with new line and they will occupy 100% of width.  
We have following list of block elements.

ex:

<p>, <h1> to <h6> , <ol> , <ul> , <div> and etc.

ex:

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <p style="border:2px solid black">This is Paragraph</p>
    <h1 style="border:2px solid blue">This is heading tag</h1>
    <div style="border:2px solid red">This is division tag</div>
  </body>
</html>
```

#### 2)Inline elements

---

Inline elements always starts with same line and they will occupy width as much as required.  
We have following list of inline elements.

ex:

<b>, <i>, <u> , <strong> , <span> and etc.

ex:

--

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <b style="border:2px solid black">It is bold tag</b>
    <i style="border:2px solid blue">It is italic tag</i>
    <span style="border:2px solid red">It is span tag</span>
  </body>
</html>
```

### Q)Types of list in HTML?

We have three types of list in HTML.

- 1)Orderlist
- 2)Unorderlist
- 3)Description list

### 1)Order list:

-----

It is used to group a set of related items in a specific order.

Ex:

```
<ol>
    <li>HTML</li>
    <li>CSS</li>
    <li>JAVASCRIPT</li>
</ol>
```

### 2)Unorder list:

-----

It is used to group a set of related items in no particular order.

Ex:

```
<ul>
    <li>HTML</li>
    <li>CSS</li>
    <li>JAVASCRIPT</li>
</ul>
```

### 3)Description list:

-----

It is used to display name/value pairs such as terms and definitions.

Ex:

```
<dl>
    <dt>HTML</dt>
    <dd>HTML is widely used language on web.</dd>
</dl>
```

### Q)What is HTML Entity?

An HTML entity is a piece of text ("string") that begins with an ampersand (&) and ends with a semicolon (;).

Entities are frequently used to display reserved characters, and invisible characters.

Ex:

Character	Entity
&	&amp;
>	&gt;
<	&lt;
“	&quot;
	&nbsp;
>>	&raquo;
<<	&laquo;
and etc.	

### HTML forms

=====

In html, forms are used to read the input data from the enduser.

Forms will transfer the data to database or server for processing.

To create a form in a html we need to use <form> tag.

syntax:

```
<form>
-
- //form components
-
</form>
```

A <form> tag/element may contains number of <input> elements/tags for textfield,textarea,password filed ,radio,checkbox and etc.



We have following list of <input> elements/tags  
ex:

- |                            |   |   |
|----------------------------|---|---|
| 1)<input type="text"/>     | - | It is used to represent textfield         |
| 2)<input type="password"/> | - | It is used to represent password field.   |
| 3)<input type="number"/>-  |   | It is used to represent number field.     |
| 4)<input type="checkbox"/> | - | It is used to represent checkbox.         |
| 5)<input type="radio"/>    | - | It is used to represent radio button.     |
| 6)<input type="hidden"/> - |   | It is used to represent hidden textfield. |
| 7)<input type="date"/>     | - | It is used to represent date field.       |
| 8)<input type="color"/>    | - | It is used to specify color.              |
| 9)<input type="button"/> - |   | It is used to represent HTML button.      |
| 10)<input type="email"/> - |   | IT is used to represent email field.      |
| 11)<input type="search"/>- |   | It is used to represent search field.     |
| 12)<input type="submit"/>  | - | It is used to represent submit button.    |
| 13)<input type="reset"/> - |   | It is used to represent reset button.     |
| 14)<input type="file"/>    | - | It is used to select a file. and etc.     |

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>    </head>
  <body>
    Name : <input type="text" name="t1"/>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Password : <input type="password" name="t1"/>
  </body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
```

```
        <body>
            Age : <input type="number" name="t1"/>
        </body>
</html>
```

ex:4

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Marital Status:
        <input type="checkbox" value="single" name="t1"/>SINGLE
        &nbsp;
        <input type="checkbox" value="married" name="t1"/>MARRIED
    </body>
</html>
```

ex:5

----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Gender:
        <input type="radio" value="male" name="t1"/>MALE
        &nbsp;
        <input type="radio" value="female" name="t1"/>FEMALE
    </body>
</html>
```

ex:6

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Name: <input type="hidden" name="t1"/>
    </body>
</html>
```

ex:7

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        DOJ : <input type="date" name="t1"/>
    </body>
</html>
```

ex:8

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Color Name : <input type="color" name="t1"/>
  </body>
</html>
```

ex:9

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <input type="button" value="submit"/>
  </body>
</html>
```

ex:10

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Email : <input type="email" name="t1"/>
  </body>
</html>
```

ex:11

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Search : <input type="search" name="t1"/>
  </body>
</html>
```

ex:12

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <input type="submit" value="submit"/>
    <input type="submit" value="login"/>
    <input type="submit" value="signin"/>
  </body>
</html>
```

ex:13

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <input type="reset" value="reset"/>

        <input type="reset" value="refresh"/>
    </body>
</html>
```

ex:14

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        File1: <input type="file" name="t1"/> <br>

        File2: <input type="file" name="t2"/>
    </body>
</html>
```

### **HTML TextArea**

=====

A <textarea> tag is used to represent text area in HTML.  
It contains two attributes i.e rows and cols.

ex:

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Address:
        <textarea rows="5" cols="10"></textarea>
    </body>
</html>
```

### **HTML select box**

=====

A <select> tag is used to represent select box in HTML.  
To add the options in select box we need to use <option> tag.

ex:

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        Country
        <select>
```

```

                <option>none</option>
                <option>India</option>
                <option>America</option>
                <option>Australia</option>
            </select>
        </body>
    </html>

```

## HTML <form> tag

=====

All form components we need to place inside <form> tag or element.

ex:

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form>
            UserName: <input type="text" name="t1"/> <br>
            Password: <input type="password" name="t2"/> <br>
            <input type="submit" value="submit"/>
        </form>
    </body>
</html>

```

## Form action attribute

=====

A form "action" attribute specifies what actions has to be performed when user submit the data. Basically, form submit the data to database or server for processing.

ex:

-----

### a.html

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>A.html</title>
    </head>
    <body bgcolor="forestgreen">
        <center>
            <h1>Welcome to HTML </h1>
        </center>
    </body>
</html>

```

### index.html

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form action="a.html">
            UserName: <input type="text" name="t1"/> <br>
            Password: <input type="password" name="t2"/> <br>
            <input type="submit" value="submit"/>
        </form>
    </body>
</html>

```

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

### Form target attribute

=====

A form "target" attribute specifies either submitted data must open in a current window or a new window.  
A default value for target attribute is "\_self".

ex:1

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form action="a.html" target="_self">
            UserName: <input type="text" name="t1"/> <br>
            Password: <input type="password" name="t2"/> <br>
            <input type="submit" value="submit"/>
        </form>
    </body>
</html>
```

ex:2

----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form action="a.html" target="_blank">
            UserName: <input type="text" name="t1"/> <br>
            Password: <input type="password" name="t2"/> <br>
            <input type="submit" value="submit"/>
        </form>
    </body>
</html>
```

### Form name attribute

=====

A form "name" attribute specifies name to a form.

ex:

---

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form name="myform" action="a.html" target="_blank">
            UserName: <input type="text" name="t1"/> <br>
            Password: <input type="password" name="t2"/> <br>
            <input type="submit" value="submit"/>
        </form>
    </body>
</html>
```

## Form method attribute

=====

A form "method" attribute specifies HTTP methods.  
The default methodology is GET.

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <form name="myform" action="a.html" target="_blank" method="GET">
      UserName: <input type="text" name="t1"/> <br>
      Password: <input type="password" name="t2"/> <br>
      <input type="submit" value="submit"/>
    </form>
  </body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <form name="myform" action="a.html" target="_blank" method="POST">
      UserName: <input type="text" name="t1"/> <br>
      Password: <input type="password" name="t2"/> <br>
      <input type="submit" value="submit"/>
    </body>
</html>
```

## HTML <label> tag

=====

A <label> tag is used to represent label in a HTML.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <label>Name</label> : <input type="text" name="t1"/>
  </body>
</html>
```

## HTML form using table

=====

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
```

```

<body>
  <form action="" target="_self" name="myform" method="GET">
    <table>
      <tr>
        <td><label>Name</label></td>
        <td><input type="text" name="t1"/></td>
      </tr>
      <tr>
        <td><label>Password:</label></td>
        <td><input type="password" name="t2"/></td>
      </tr>
      <tr>
        <td>Age:</td>
        <td><input type="number" name="t3"/></td>
      </tr>
      <tr>
        <td><input type="reset" value="reset"/></td>
        <td><input type="submit" value="submit"/></td>
      </tr>
    </table>
  </form>
</body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <form action="" target="_self" name="myform" method="GET">
      <table align="center">
        <caption>Enter the Details</caption>
        <tr>
          <td><label>Name</label></td>
          <td><input type="text" name="t1"/></td>
        </tr>
        <tr>
          <td><label>Password:</label></td>
          <td><input type="password" name="t2"/></td>
        </tr>
        <tr>
          <td>Age:</td>
          <td><input type="number" name="t3"/></td>
        </tr>
        <tr>
          <td><input type="reset" value="reset"/></td>
          <td><input type="submit" value="submit"/></td>
        </tr>
      </table>
    </form>
  </body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>

```



```

<head>
    <title>IHUBTALENT</title>
</head>
<body>
    <form action="" target="_self" name="myform" method="GET">
        <table align="center">
            <caption>Enter the Details</caption>
            <tr>
                <td><label>Name</label></td>
                <td><input type="text" name="t1" autocomplete="off"/></td>
            </tr>
            <tr>
                <td><label>Password:</label></td>
                <td><input type="password" name="t2" autocomplete="off"/></td>
            </tr>
            <tr>
                <td>Age:</td>
                <td><input type="number" name="t3" autocomplete="off"/></td>
            </tr>
            <tr>
                <td><input type="reset" value="reset"/></td>
                <td><input type="submit" value="submit"/></td>
            </tr>
        </table>
    </form>
</body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <form action="" target="_self" name="myform" method="GET">
            <table align="center">
                <caption>Enter the Details</caption>
                <tr>
                    <td><label>Name</label></td>
                    <td><input type="text" name="t1" autocomplete="off" required/></td>
                </tr>
                <tr>
                    <td><label>Password:</label></td>
                    <td><input type="password" name="t2" autocomplete="off" required/></td>
                </tr>
                <tr>
                    <td>Age:</td>
                    <td><input type="number" name="t3" autocomplete="off" required/></td>
                </tr>
                <tr>
                    <td><input type="reset" value="reset"/></td>
                    <td><input type="submit" value="submit"/></td>
                </tr>
            </table>
        </form>
    </body>
</html>

```

ex:5

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <form action="" target="_self" name="myform" method="GET">
      <table align="center">
        <caption>Enter the Details</caption>
        <tr>
          <td><input type="text" placeholder="enter the name" name="t1" autocomplete="off"
required/></td>
          </tr>
          <tr>
            <td><input type="password" placeholder="enter the password" name="t2"
autocomplete="off" required/></td>
            </tr>
            <tr>
              <td><input type="number" placeholder="enter the age" name="t3" autocomplete="off"
required/></td>
              </tr>
              <tr>
                <td><input type="submit" value="submit"/></td>
                </tr>
            </table>
          </form>
        </body>
      </html>
```

### **datalist tag**

=====

A <datalist> tag/element is used to specify list of predefined options for an <input> tag/element.

A <datalist> tag/element provides autocomplete features for an <input> element/tag.

User will see a drop-down list of predefined options for an <input> tag/element.

A <datalist> tag/element "id" attribute must be same as <input> tag/element "list" attribute.

ex:

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    Country : <input type="text" name="c1" list="countries"/>

    <datalist id="countries">
      <option value="India">
      <option value="Indoniasia">
      <option value="Ireland">
      <option value="Iraq">
      <option value="Iran">
      <option value="America">
      <option value="Australia">
      <option value="Argentina">
```

```
        </datalist>

    </body>
</html>
```

## Details tag

=====

A <details> tag/element is used display special content where a user can open and close on demand.

A <details> tag is used to design interactive widgets where user can open and close.

A <details> tag contains <summary> tag.

We can keep any sort of tags inside <details> tags.

ex:

----

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <details>
            <summary>HTML</summary>
            <p>HTML is a widely used language on web</p>
            <div>HTML is a case insensitive language</div>
            <h1>HTML is a tag based language</h1>
        </details>
    </body>
</html>
```

## HTML <del> and <ins> tag

=====

The <del> HTML element represents a range of text that has been deleted from a document.

The <ins> element can be used for the opposite purpose: to indicate text that has been added to the document.

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        My Hero is <del>Mahesh Babu</del> <ins>Allu Arjun</ins>
    </body>
</html>
```

## HTML <sub> tag

=====

The <sub> tag defines subscript text.

Subscript text appears half a character below the normal line, and is sometimes rendered in a smaller font.

ex:

```
<!DOCTYPE html>
<html>
    <head>
        <title>IHUBTALENT</title>
    </head>
    <body>
        <h1>H<sub>2</sub>O</h1>
    </body>
</html>
```

## HTML <sup> tag

=====

The <sup> tag defines superscript text.

Superscript text appears half a character above the normal line, and is sometimes rendered in a smaller font.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <h1>
      a<sup>2</sup>+b<sup>2</sup>
    </h1>
  </body>
</html>
```

## HTML <bdo> tag

=====

BDO stands for Bi-Directional Override.

The <bdo> tag is used to override the current text direction.

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUBTALENT</title>
  </head>
  <body>
    <h1>Hello</h1>

    <h1>
      <bdo dir="rtl">Hello</bdo>
    </h1>

    <h1>
      <bdo dir="ltr">Hello</bdo>
    </h1>
  </body>
</html>
```

## Notepad++ Editor

=====

Download link : <https://notepad-plus-plus.org/downloads/>

## HTML <header> and <nav> tag

=====

The <header> element represents a container for introductory content or a set of navigational links.

The <nav> tag defines a set of navigation links.

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
  </head>
```

```
<body>  
    <header>  
        <center>  
            <nav>  
                <a href="">HOME</a> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
                <a href="">ABOUT</a> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
                <a href="">SERVICE</a> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
                <a href="">PORTFOLIO</a> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
                <a href="">CONTACT</a> &nbsp;&nbsp;&nbsp;&nbsp;&~  
            </nav>  
        </center>  
    </header>  
</body>  
</html>
```

```

    <head>
        <title>MyPage!</title>
    </head>
    <body>
        <footer>
            <center>
                <p> HOME | ABOUT | SERVICE | PORTFOLIO | CONTACT</p>
                <p> &copy;All Right Reserved-2023</p>
            </center>
        </footer>
    </body>
</html>

```

### HTML <small> tag

=====

The <small> HTML element represents small print like copyright and legal text.

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <body>
        <footer>
            <center>
                <small> &copy;All Right Reserved-2023</small>
            </center>
        </footer>
    </body>
</html>

```

### HTML <big> tag

=====

The <big> tag is used to make the text one size bigger i.e from small to medium, medium to large, large to x-large.

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <body>
        <p>This is <big>html</big> class for html students</p>
    </body>
</html>

```

### HTML <cite> tag

=====

The <cite> tag defines the title of a creative work i.e movie , songs, Poems and etc.

The text in the <cite> element usually renders in italic.

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <body>

```

```

Movie Name : <cite>Dhamaka</cite>
    </body>
</html>

```

## HTML <mark> tag

=====

The HTML <mark> tag is used to mark or highlight text that has special interest.

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <body>
        Sir , from today onwards <mark> i will practice java</mark>

    </body>
</html>

```

## HTML frames

=====

To use frames on a web page we need to use <frameset> tag instead of <body> tag.  
The <frameset> tag defines how to divide the window into frames.  
The "rows" attribute of <frameset> tag defines horizontal frames.  
The "cols" attribute of <frameset> tag defines vertical frames.  
Each frame is indicated by <frame> tag and it defines which document should be open into that place.

Note:

----

The <frame> tag is deprecated in HTML5 so that don't use this tag.

### index.html

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <frameset cols="33%,*,33%">
        <frame src="a.html">
        <frame src="b.html">
        <frame src="c.html">
    </frameset>
</html>

```

### a.html

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>A.html</title>
    </head>
    <body bgcolor="blue">

    </body>
</html>

```

### **b.html**

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>B.html</title>
    </head>
    <body bgcolor="pink">

    </body>
</html>
```

### **c.html**

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>C.html</title>
    </head>
    <body bgcolor="red">
    </body>
</html>
```

ex:2

### **index.html**

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <frameset rows="33%,*,33%">
        <frame src="a.html">
        <frame src="b.html">
        <frame src="c.html">
    </frameset>
</html>
```

### **a.html**

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>A.html</title>
    </head>
    <body bgcolor="#EE5A24">
    </body>
</html>
```

### **b.html**

```
-----
<!DOCTYPE html>
<html>
    <head>
        <title>B.html</title>
    </head>
```



```

        <body bgcolor="#FFFFFF">

                <center>
                        
                </center>

        </body>
</html>

```

### **c.html**

```

-----
<!DOCTYPE html>
<html>
        <head>
                <title>C.html</title>
        </head>
        <body bgcolor="#009432">
        </body>
</html>

```

### **HTML <iframe> tag**

=====

It is used to specify inline frame.

A <iframe> tag/element is used to embed a document into current HTML document.

ex:1

```

-----
<!DOCTYPE html>
<html>
        <head>
                <title>MyPage!</title>
        </head>
        <body>
                <iframe src="http://www.ihubtalent.com" width="300px" height="300px">
                </iframe>
        </body>
</html>

```

ex:2

-----

### **index.html**

```

-----
<!DOCTYPE html>
<html>
        <head>
                <title>MyPage!</title>
        </head>
        <body>
                <iframe src="a.html" width="300px" height="300px">
                </iframe>
        </body>
</html>

```

### **a.html**

-----

```

<!DOCTYPE html>
<html>
        <head>
                <title>A.html</title>
        </head>
        <body bgcolor="#EE5A24">

```

```

        <center>
            <h1>A.HTML file</h1>
        </center>

    </body>
</html>
ex:3
-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
    </head>
    <body>
        <a href="a.html" target="myFrame">clickMe</a>
        <br><br>
        <iframe src="" name="myFrame" width="300px" height="300px"></iframe>
    </body>
</html>

```

### Steps to display Google Map on a web page

=====

step1:

-----

Goto Google Maps.

ex:

<https://www.google.com/maps>

step2:

-----

Type Ihub Talent in Google Map Search Box.

step3:

-----

Click on "menu" button.

step4:

-----

Click on "share and embed Map"

step5:

-----

Click on "embeded a map" link.

step6:

-----

Click to "Copy Html".

step7:

-----

Paste the code inside <body> tag of index.html file.

step8:

-----

Check the output on browser window.

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title>INDEX</title>
```

```
    </head>
```

```
    <body>
```

```
        <iframe
```

```
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3806.4876564064143!2d78.44241401427
325!3d17.436358405981736!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3bcb919633f78bef%3
A0xbbb63515db9bc2eba!2siHub%20Talent%20(Innovative%20Placement%20Solutions)!5e0!3m2!1sen!2sin!4v
```

1665222276198!5m2!1sen!2sin" width="100%" height="450" style="border:0;" allowfullscreen="" loading="lazy" referrerpolicy="no-referrer-when-downgrade"></iframe>

</body>  
</html>

## HTML Audio

=====

The HTML <audio> tag/element is used to play an audio file on a web page.  
<audio> tag contains "controls" attribute adds audio control like play,pause ,volume and etc.  
The <source > tag/element allows us to specify alternate audio file which the browser my choose.

HTML audio formats can be MP3,WAV,OGG and etc.  
HTML Audio Media types are

File Formats	Media Type
-----	-----
MP3	audio/mpeg
OGG	audio/ogg
WAV	audio/wav

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage</title>
  </head>
  <body>
    <audio controls>
      <source src="song.mp3" type="audio/mpeg">
    </audio>
  </body>
</html>
```

## HTML video Tag/Element

=====

The <video> tag or element is used to embed video content in a document such as movie clip,other video streams.  
The <video> tag contains one or more <source> tag with different video source.  
There are three supported video fromats in html are MP4,webM and OGG  
HTML video media types are

File format	Media Type
-----	-----
MP4	video/mp4
OGG	video/ogg
and etc.	

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage</title>
  </head>
  <body>
    <video controls >
      <source src="video.mp4" type="video/mp4">
    </video>
  </body>
</html>
```

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage</title>
  </head>
  <body>
    <video controls width="400" height="400">
      <source src="video.mp4" type="video/mp4">
    </video>
  </body>
</html>
```

## Graphics in HTML5

=====

There are two ways to draw the graphics in HTML5.

1)SVG

2)CANVAS

### 1)SVG

-----

HTML5 uses SVG technology to derived graphics in HTML.

SVG stands for Scalable Vector Graphics.

SVG is used to draw two-dimensional vector based graphics in HTML.

World Wide Web Consortium (W3C) prefers SVG technology to draw the graphics in HTML.

A <svg> tag/element is a container tag for vector graphics.

A <svg> tag/element contains various methods to display circle, rectangle, polygon ,  
graphic images and etc.

ex:1

----

```
<!DOCTYPE html>
<html>
  <head>
    <title>INDEX</title>
  </head>
  <body>
    <!-- container -->
    <svg style="border:2px solid black" width="300px" height="300px">
      </svg>
  </body>
</html>
```

ex:2

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>INDEX</title>
  </head>
  <body>
    <!-- container -->
    <svg style="border:2px solid black" width="300px" height="300px">
      <!-- circle -->
      <circle cx="150px" cy="150px" r="50px"/>
    </svg>
  </body>
</html>
```

ex:3

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>INDEX</title>
  </head>
  <body>
    <!-- container -->
    <svg style="border:2px solid black" width="300px" height="300px">
      <!-- circle -->
      <circle cx="150px" cy="150px" r="50px"
        fill="#FFFF00" stroke="#FF0000" stroke-width="5px"/>
    </svg>
  </body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>INDEX</title>
  </head>
  <body>
    <!-- container -->
    <svg style="border:2px solid black" width="300px" height="300px">
      <!-- rectangle -->
      <rect x="50px" y="20px" width="200px" height="200px"
        fill="green" stroke="blue" stroke-width="5px"/>
    </svg>
  </body>
</html>

```

ex:5

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>INDEX</title>
  </head>
  <body>
    <!-- container -->
    <svg style="border:2px solid black" width="300px" height="300px">
      <!-- polygon -->
      <polygon points="10,78 100,10 250,190 160,210"
        fill="yellow" stroke="red" stroke-width="5px"/>
    </svg>
  </body>
</html>

```

## 2)CANVAS

-----

A <canvas> tag is used to draw vector graphics via javascript.

A <canvas> tag/element is a container tag.

A <canvas> tag/element contains various methods to display lines,circle,rectangle,polygon, graphic images and etc.

ex:1

-----

```

<!DOCTYPE html>
<html>
  <head>

```

```

        <title>INDEX</title>
    </head>
    <body>
        <!-- container -->
        <canvas style="border:2px solid black;" width="300px" height="300px">
            </canvas>
    </body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>INDEX</title>
    </head>
    <body>
        <!-- container -->
        <canvas id="myId" style="border:2px solid black;"
            width="300px"
            height="300px">

        </canvas>
        <script>
            var context=document.getElementById("myId");
            var c=context.getContext("2d");
            c.moveTo(0,0);
            c.lineTo(400,400);
            c.stroke();
        </script>
    </body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>INDEX</title>
    </head>
    <body>
        <!-- container -->
        <canvas id="myId" style="border:2px solid black;"
            width="300px"
            height="300px">

        </canvas>
        <script>
            var context=document.getElementById("myId");
            var c=context.getContext("2d");
            c.beginPath();
            c.arc(100,100,50,0,2*Math.PI);
            c.stroke();
        </script>
    </body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
    <head>

```

```

<title>INDEX</title>
</head>
<body>
  <!-- container -->
  <canvas id="myId" style="border:2px solid black;"
        width="300px"
        height="300px">

  </canvas>
  <script>
    var context=document.getElementById("myId");
    var c=context.getContext("2d");
    c.font = "30px Arial";
    c.fillText("Hello World", 20, 50);
  </script>
</body>
</html>

```

## Interview Questions

### Q)Differences between HTML and HTML5 ?

HTML	HTML5
1)To represent HTML document we need to use <!DOCTYPE>.	To represent HTML5 document we need to use <!DOCTYPE html>.
2)HTML is bit slow	HTML5 is more faster because it is leight weight HTML5 is more efficient.
3)HTML is not efficient.	
4)HTML is inflexible for the developer.	HTML5 is flexible for the developer.
5)HTML is Less mobile friendly.	HTML5 is mobile friendly.
6)Does not support drag and drop effects.	It supports Drag and Drop effects.
7)Not supported Audio and video without using flash player.	Supports audio and video with the help of <audio> and <video> tag without using flash player.
8)IT does not support javascript to run on browser.	It supports javascript to run in background the help of JS Web Worker API.
9)Vector graphics supported with the help of technologies such as VML,Silver light,adobe flash and etc.	Vector graphics is supported with the help of internal technologies such as SVG and CANVAS
10)Can't handle inaccurate syntax.	IT can handle Inaccurate syntax
11)shapes like circle,rectangle,triangle Shapes like circle ,triangle,rectangle are easy to draw. are not possible	

### Q)List out some HTML layout elements?

<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

### Q)Difference between <div> and <span> tag?

div	<b>span</b>
It is block level element	It is inline element.
It is used to wrap sections of a document	It is used to wrap small portion of text images and etc.
It is used to create CSS based layouts.	It is used to stylize texts.

### Q)List out some Tags introduced in HTML5?

The following tags introduced in HTML5 are

Ex:

<header>            <footer>            <section>            <article>            <aside>  
                  <nav>            <audio> <video> <command>            <datalist>  
                  <figure>            <hgroup>            <mark>            <meter>            <summary>  
                  <progress>            <output>            <ruby>            <time>            and etc.

### Q)List out some Tags/Elements removed from HTML5?

The following tags/elements removed from HTML5 are

Ex:

<big>            <center>            <font>            <frame>            <frameset>  
 <noframes>            <s>            <strike> <u>            <dir>  
 <applet>            <basefont>            and etc.

### Q)In how many ways we can display graphics in HTML?

There are two ways to draw the graphics in html.

SVG:

----

SVG stands for "Scalable Vector Graphics".

Using SVG we can derive 2 dimensional vector based graphics on a web page.

The <svg> tag/element is a container for SVG graphics.

CANVAS:

-----

A <canvas> tag/element is used to draw the graphics via JavaScript.

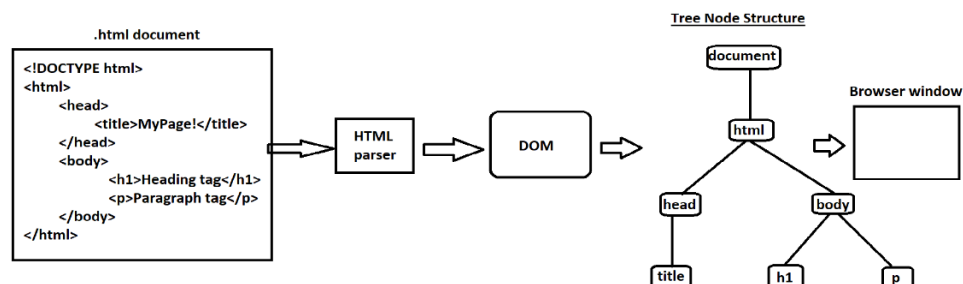
A <canvas> tag/element is a container for html graphics.

### Q)What is responsive web design?

Responsive web design is about creating web pages which automatically adjust the content for difference screens and viewports.

### How our HTML document execute in a browser window

=====



First HTML parser will parse the data from HTML document.



Later , HTML parse will handover the data to DOM.  
DOM stands for Document Object Model.  
DOM is used to represent our HTML document to Tree node structure.  
Finally, tree node structure will execute in a browser window.

### CSS3

=====

CSS stands for Cascading Styles Sheet.  
It is widely used language on web like HTML.  
CSS is used to apply the styles on HTML elements/tags.  
The latest version of CSS3 was introduced in 2001.  
The main objective of CSS are.

- 1) To set the positioning of an element.
- 2) To apply the styles to describe how an element should look like.
- 3) To perform some sort of animations.

syntax

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style type="text/css">
            -
            -
            -
        </style>
    </head>
    <body>

    </body>
</html>
```

or

----

syntax

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            -
            -
            -
        </style>
    </head>
    <body>

    </body>
</html>
```

ex:1

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style type="text/css">
```

```

        h1
        {
            color:red;
        }
    </style>
</head>
<body>
    <h1>Ihub Talent Management</h1>
</body>
</html>

```

Note:

-----

Here styles are cascading from head to body.

ex:2

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:blue;
                background-color:yellow;
            }
        </style>
    </head>
    <body>
        <h1>Ihub Talent Management</h1>
    </body>
</html>

```

## CSS syntax

=====

CSS rules set consist of selector and declaration blok.

ex:

```

                declaration block
    |-----|-----|
    h1 { color:blue;background-color:yellow; }
    |
    selector

```

A selector contains an element to which we want to apply the styles.

Declaration block consist of multiple properties seperated with semicolon.

Each property contains property name and property value seperated with semicolon.

## Advantages of CSS

=====

- 1) It easy to learn and easy to use.
- 2) It saves lot of development time.
- 3) It supports all major browsers.
- 4) Supports global change.
- 5) Performance is faster
- 6) Flexibility

## Disadvantages of CSS

=====

- 1)Fragmentation
- 2)Need to update all the versions of CSS.

## Types of CSS

---

We have three types of CSS.

- 1)Inline CSS
- 2)Internal CSS
- 3)External CSS

### 1)Inline CSS

---

If we want to apply unique style on a single element then we need to use inline css.

Using "style" attribute we can achieve inline css.

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
  </head>
  <body>
    <h1 style="color:red;background-color:yellow;">
      This Is Heading Tag
    </h1>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
  </head>
  <body>
    <h1 style="color:blue;">This Is Heading Tag1</h1>
    <h1 style="text-align:center;">This Is Heading Tag2</h1>
    <h1 style="background-color:cyan;">This Is Heading Tag3</h1>
  </body>
</html>
```

### 2)Internal CSS

---

It is used to apply unique style on a single web page.

Using <style> tag we can achieve internal css.

Internal css is also known as embedded css.

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style type="text/css">
      h1
      {
        color:blue;
        text-align:center;
        background-color:tomato;
      }
    </style>
  </head>
```

```

        <body>
            <h1>This is Heading Tag</h1>
        </body>
    </html>

ex:2
-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style type="text/css">
            h1
            {
                color:blue;
                text-align:center;
                background-color:tomato;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag1</h1>
        <h1>This is Heading Tag2</h1>
        <h1>This is Heading Tag3</h1>
    </body>
</html>

```

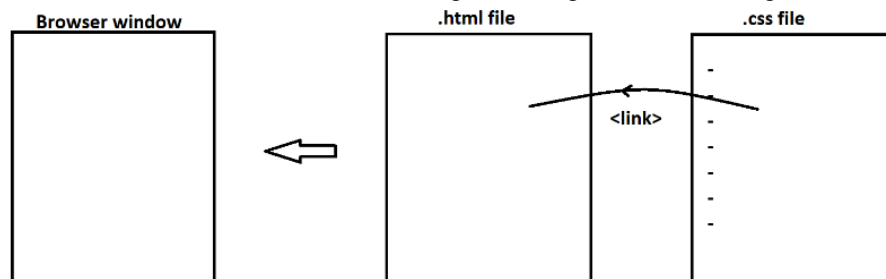
### 3)External CSS

=====

External css allows us to make a single change which reflect to entire web site.

In external CSS, we need to create two files i.e ".html" file and ".css" file.

Our ".css" file must link to ".html" file using <link> tag inside <head> tag.



#### index.html

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>

        <!-- add external css -->
        <link rel="stylesheet" type="text/css" href="mystyles.css">

    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

## **mystyles.css**

```
-----  
body  
{  
    background-color:yellow;  
}  
h1  
{  
    color:red;  
    text-align:center;  
}
```

## **CSS background property**

=====

CSS background property is used to set the background in a web page.

If we declare background property inside body tag then background will apply to entire web page.

We can set background to any HTML element.

ex:

<h1>,<p>,<div>,<table> and etc.

We have following list of CSS background properties.

- 1)background-color
- 2)background-image
- 3)background-repeat
- 4)background-size
- 5)background-position
- 6)background-attachment
- 7)shorthand property
- 8)background-blend-mode property

### **1)background-color**

-----

ex:1

```
-----  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            body  
            {  
                background-color:yellow;  
            }  
        </style>  
    </head>  
    <body>  
        <h1>This is Heading Tag</h1>  
    </body>  
</html>
```

ex:2

```
-----  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            h1
```

```

        {
            background-color:yellow;
        }
    </style>
</head>
<body>
    <h1>This is Heading Tag</h1>
</body>
</html>

```

## 2)background-image

ex:1

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                background-image:url("images/wall.jpg");
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

ex:2

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-image:url("images/bg.jpg");
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

## 3)background-repeat

ex:1

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

```

        background-repeat:repeat;
    }
</style>
</head>
<body>
    <h1>This is Heading Tag</h1>
</body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:repeat-x;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:repeat-y;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading Tag</h1>
    </body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;

```

```

        background-image:url("images/bg.jpg");
        background-repeat:no-repeat;
    }
</style>
</head>
<body>
    <h1>This is Heading Tag</h1>
</body>
</html>

```

#### 4)background-size

ex:1

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:no-repeat;
                background-size:static;
            }
        </style>
    </head>
    <body>
</body>
</html>

```

ex:2

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:no-repeat;
                background-size:400px;
            }
        </style>
    </head>
    <body>
</body>
</html>

```

ex:3

```

-----
<!DOCTYPE html>
<html>
    <head>

```



```

        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:no-repeat;
                background-size:900px 900px;
            }
        </style>
    </head>
    <body>
    </body>
</html>

```

ex:4

----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:no-repeat;
                background-size:cover;
            }
        </style>
    </head>
    <body>
    </body>
</html>

```

## 5)background-position

-----

ex:1

----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            body
            {
                background-color:#FFFFFF;
                background-image:url("images/bg.jpg");
                background-repeat:no-repeat;
                background-size:400px;
                background-position:right 0px;
            }
        </style>
    </head>
    <body>
    </body>
</html>

```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF;
        background-image:url("images/bg.jpg");
        background-repeat:no-repeat;
        background-size:400px;
        background-position:center 0px;
      }
    </style>
  </head>
  <body>
  </body>
</html>
```

ex:3

```
----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF;
        background-image:url("images/bg.jpg");
        background-repeat:no-repeat;
        background-size:400px;
        background-position:left 0px;
      }
    </style>
  </head>
  <body>
  </body>
</html>
```

ex:4

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF;
        background-image:url("images/bg.jpg");
        background-repeat:no-repeat;
        background-size:400px;
        background-position:center 200px;
      }
    </style>
  </head>
  <body>
```

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

**6)background-attachment**  
-----

ex:1

[illegible]

ex:2

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF;
        background-image:url("images/bg.jpg");
        background-repeat:no-repeat;
```



</body>  
</html>

-----

\_\_\_\_\_

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF, #FFFFFF;
        background-image:url("images/bg.jpg"),url("images/tom.png");
        background-repeat:no-repeat,no-repeat;
        background-size:cover, 400px;
        background-position:center 0px, right 30px;
        background-attachment:fixed, fixed;
        background-blend-mode:lighten;
      }
    </style>
  </head>
  <body>
  </body>
</html>
```

.....

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      body
      {
        background-color:#FFFFFF, #FFFFFF;
        background-image:url("images/bg.jpg"),url("images/tom.png");
        background-repeat:no-repeat,no-repeat;
```

```

        background-size:cover, 400px;
        background-position:center 0px, right 30px;
        background-attachment:fixed, fixed;
        background-blend-mode:darken;
    }
</style>
</head>
<body>
</body>
</html>

```

## CSS border properties

The CSS border properties allows us to specify the style,width and color of an element's border.

### 1)CSS border style

The border-style property specifies ,what kind of border to be display.

dotted	-->	dotted border
dashed	-->	dashed border
solid	-->	solid border
double	-->	double border
groove	-->	groove border
ridge	-->	ridged border
inset	-->	3D inset border
outset	-->	3D outset border
none	-->	no border
hidden	-->	hidden border

ex:1

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
            }
            h2
            {
                border-style:double;
            }
            h3
            {
                border-style:dotted;
            }
            h4
            {
                border-style:dashed;
            }
            h5
            {
                border-style:groove;
            }
            h6{
                border-style:ridge;
            }
        </style>
    </head>
    <body>
        <div>
            <h1>
            </h1>
            <h2>
            </h2>
            <h3>
            </h3>
            <h4>
            </h4>
            <h5>
            </h5>
            <h6>
            </h6>
        </div>
    </body>
</html>

```

```

        }
        div
        {
            border-style:inset;
        }
        p
        {
            border-style:outset;
        }
    </style>
</head>
<body>
    <h1>This is Heading tag</h1>
    <h2>This is Heading tag</h2>
    <h3>This is Heading tag</h3>
    <h4>This is Heading tag</h4>
    <h5>This is Heading tag</h5>
    <h6>This is Heading tag</h6>
    <div>This is division tag</div>
    <p>This is paragraph tag</p>
</body>
</html>

```

ex:2

---

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:none;
            }
            h2
            {
                border-style:hidden;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
        <h2>This is Heading tag</h2>
    </body>
</html>

```

ex:3

----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-top-style:solid;
                border-left-style:double;
                border-bottom-style:dashed;
                border-right-style:dotted;
            }

```

```

        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid double dashed dotted;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:5

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid double dotted;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:6

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid double;
            }
        </style>
    </head>

```



```

        <body>
            <h1>This is Heading tag</h1>
        </body>
    </html>

```

## 2)CSS border width

-----

The border-width property specifies the width of four borders.  
 The width can be set as a specific size like in px,pt,cm,em and etc.  
 We can use one of the predefined value like thin,medium and thick.

ex:1

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px;
            }
            h2
            {
                border-style:solid;
                border-width:1cm;
            }
            h3
            {
                border-style:solid;
                border-width:1em;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
        <h2>This is heading tag </h2>
        <h3>This is heading tag </h3>
    </body>
</html>

```

ex:2

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-top-width:5px;
                border-right-width:10px;
                border-bottom-width:15px;
                border-left-width:20px;
            }
        </style>
    </head>
    <body>

```

```
        <h1>This is Heading tag</h1>
    </body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px 10px 15px 20px;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>
```

ex:4

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px 10px 20px;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>
```

ex:5

-----

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px 10px;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>
```

### 3)CSS border color

-----  
The border-color property is used to set the color of four borders.  
Color can be set by

- 1)With color name like red.
- 2)with HEX value like #FFFF00.
- 3)With RGB value like rgb(255,0,0).
- 4)With HSL value like hsl(0,100%,50%).

Note:

----

By default, all the borders will be displayed with black color.

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        border-style:solid;
        border-width:5px;
        border-color:red;
      }
      h2
      {
        border-style:solid;
        border-width:5px;
        border-color:#A2F400;
      }
      h3
      {
        border-style:solid;
        border-width:5px;
        border-color:rgb(0,0,255);
      }
      h4
      {
        border-style:solid;
        border-width:5px;
        border-color:hsl(300, 100%, 50%);
      }
    </style>
  </head>
  <body>
    <h1>This is Heading tag</h1>
    <h2>This is Heading tag</h2>
    <h3>This is Heading tag</h3>
    <h4>This is Heading tag</h4>
  </body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
  <head>
```

```

        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px;
                border-top-color:red;
                border-right-color:green;
                border-bottom-color:blue;
                border-left-color:yellow;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px;
                border-color:red green blue yellow;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:4

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border-style:solid;
                border-width:5px;
                border-color:red blue yellow;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag</h1>
    </body>
</html>

```

ex:5

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        border-style:solid;
        border-width:5px;
        border-color:red blue;
      }
    </style>
  </head>
  <body>
    <h1>This is Heading tag</h1>
  </body>
</html>
```

#### 4)CSS border shorthand property

---

It is used to shorthand the property.

It is also possible to declare all the individual properties to one property.

In order to make border shorthand property we need to using following below given order.

ex:

```
border-width : 2px;
border-style : solid;
border-color : red;
```

or

```
border : 2px solid red;
```

ex:

```
---
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        border : 2px solid red;
      }
    </style>
  </head>
  <body>
    <h1>This is Heading tag</h1>
  </body>
</html>
```

#### CSS Margins

---

CSS margin properties are used create space around elements ,outside of defined border.

CSS contains following properties to specify the margins for each side of an element.

- 1)margin-top
- 2)margin-right
- 3)margin-bottom
- 4)margin-left

All the above margin properties can have following values . They are

- 1)auto - The browser calculates the margin.
- 2)length - It declare margin in px,pt,cm,em and etc.
- 3)% - It declare margin in percentage(%).
- 4)inherit - It declare the margin should be inherited from parent element.

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin-top:100px;
        margin-right:100px;
        margin-bottom:100px;
        margin-left:100px;
      }
    </style>
  </head>
  <body>
    <div>This is span tag</div>
  </body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin-top:10%;
        margin-right:20%;
        margin-bottom:30%;
        margin-left:40%;
      }
    </style>
  </head>
  <body>
    <div>This is span tag</div>
  </body>
```

</html>

ex:3

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin-top:50px;
        margin-right:50px;
        margin-bottom:50px;
        margin-left:50px;
      }
      h1
      {
        border :2px solid red;
        margin-top:inherit;
        margin-right:inherit;
        margin-bottom:inherit;
        margin-left:inherit;
      }
    </style>
  </head>
  <body>
    <div>
      <h1>This is heading tag</h1>
    </div>
  </body>
</html>
```

### **shorthand property**

-----

If margin contains four values.  
margin: 25px 50px 75px 100px;

top right bottom left

ex:

----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin: 25px 50px 75px 100px;
      }
    </style>
  </head>
  <body>
    <div>
      This is div tag
    </div>
  </body>
</html>
```

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

If margin contains three values.  
margin: 25px 50px 75px;

top left and right bottom

ex:

----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin: 25px 50px 75px;
      }
    </style>
  </head>
  <body>
    <div>
      This is div tag
    </div>
  </body>
</html>
```

If margin contains two values.  
margin: 50px 100px;

top and bottom left and right

ex:

----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin: 50px 100px;
      }
    </style>
  </head>
  <body>
    <div>
      This is div tag
    </div>
  </body>
</html>
```

If margin contains one value.  
margin:100px;  
all sides are 100px



ex:

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin:100px;
      }
    </style>
  </head>
  <body>
    <div>
      This is div tag
    </div>
  </body>
</html>
```

Note:

-----  
A margin property can accept negative numbers.

ex:

```
---
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        margin-top:-50px;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag 1</h1>
    <h2>This is heading tag 2</h1>
    <div>
      This is div tag
    </div>
  </body>
</html>
```

## **CSS padding**

=====

The CSS padding properties are used to generate space around elements content.  
We have following CSS properties for specifying padding for each side.

- 1)padding-top
- 2)padding-right
- 3)padding-bottom
- 4)padding-left

All the above padding properties can have following values.

Note:

-----

Negative values are not allowed but in margin -ve values are allowed.  
Margin is page/screen level and padding is a content level.

ex:1

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        border:2px solid black;
        padding-top:100px;
        padding-left:100px;
        padding-bottom:100px;
        padding-right:100px;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag 1</h1>
  </body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        border:2px solid black;
        padding-top:10%;
        padding-left:20%;
        padding-bottom:30%;
        padding-right:40%px;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag 1</h1>
  </body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid red;
        padding-top:50px;
        padding-right:50px;
      }
    </style>
  </head>
  <body>
    <div>
      <h1>This is heading tag 1</h1>
    </div>
  </body>
</html>
```

```

padding-bottom:50px;
padding-left:50px;
    }
    h1
    {
        border:2px solid black;
        padding-top:inherit;
        padding-right:inherit;
        padding-bottom:inherit;
        padding-left:inherit;
    }
</style>
</head>
<body>
    <div>
        <h1>This is heading tag 1</h1>
    </div>
</body>
</html>

```

## shorthand property

If padding contains four values.  
padding: 25px 50px 75px 100px;  
          top right bottom left

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border:2px solid black;
                padding: 25px 50px 75px 100px;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag 1</h1>
    </body>
</html>

```

If padding contains three values.  
padding: 25px 50px 100px;

          top left and right bottom

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1

```

```

        {
            border:2px solid black;
            padding: 25px 50px 100px;
        }
    </style>
</head>
<body>
    <h1>This is heading tag 1</h1>
</body>
</html>

```

If padding contains two values.  
padding:50px 100px;

top and bottom left and right

ex:  
----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border:2px solid black;
                padding:50px 100px;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag 1</h1>
    </body>
</html>

```

If padding contains one value.  
padding:100px;

all sides are 100px.

ex:  
----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                border:2px solid black;
                padding:100px;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag 1</h1>
    </body>
</html>

```

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

## CSS setting Height and Width

=====

The "height" and "width" property is used to set the height and width of an element.  
The height and width properties do not include padding ,borders and margins.  
It set height and width of the area inside the padding ,borders ,margins and other elements.

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        width: 300px;
        height:300px;
        background-color:cyan;
        margin:145px auto;
      }
    </style>
  </head>
  <body>
    <div></div>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      div
      {
        border:2px solid black;
        max-width: 300px;
        min-height:300px;
        background-color:cyan;
        margin:145px auto;
      }
    </style>
  </head>
  <body>
    <div></div>
  </body>
</html>
```

## CSS text property

=====

color property

```
-----
<!DOCTYPE html>
<html>
```

```

    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

### background-color property

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

### text-align property

```

-----
ex:1
----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

```

ex:2
-----
<!DOCTYPE html>
<html>

```

```

<head>
  <title>MyPage!</title>
  <style>
    h1
    {
      color:red;
      background-color:yellow;
      text-align:right;
    }
  </style>
</head>
<body>
  <h1>This is heading tag </h1>
</body>
</html>

```

ex:3

```

-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:left;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag </h1>
  </body>
</html>

```

### text-transform

```

-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:uppercase;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag </h1>
  </body>
</html>

```

ex:2

```

-----
<!DOCTYPE html>

```

```

<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:lowercase;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag </h1>
  </body>
</html>

```

ex:3

----

```

<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:capitalize;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag </h1>
  </body>
</html>

```

### **text-decoration property**

-----

ex:1

-----

```

<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:capitalize;
        text-decoration:underline;
      }
    </style>
  </head>
  <body>

```



```

        <h1>This is heading tag </h1>
    </body>
</html>
ex:2
----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

### **letter-spacing property**

-----

```

ex:
----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

### **font-size property**

-----

```

ex:
----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>

```

```

        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
                font-size:50px;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

### font-family property

-----

ex:1

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
                font-size:50px;
                font-family:cursive;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

```

        letter-spacing:4px;
        font-size:50px;
        font-family:serif;
    }
</style>
</head>
<body>
    <h1>This is heading tag </h1>
</body>
</html>

```

ex:3

```

----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
                font-size:50px;
                font-family:sans-serif;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            h1
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
                font-size:50px;
                font-family:monospace;
            }
        </style>
    </head>
    <body>
        <h1>This is heading tag </h1>
    </body>
</html>

```

ex:5

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      h1
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:capitalize;
        text-decoration:none;
        letter-spacing:4px;
        font-size:50px;
        font-family:fantasy;
      }
    </style>
  </head>
  <body>
    <h1>This is heading tag </h1>
  </body>
</html>
```

## font-weight

-----

ex:1

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      i
      {
        color:red;
        background-color:yellow;
        text-align:center;
        text-transform:capitalize;
        text-decoration:none;
        letter-spacing:4px;
        font-size:50px;
        font-family:fantasy;
        font-weight:bold;
      }
    </style>
  </head>
  <body>
    <i>This is heading tag </i>
  </body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
```

```

        <style>
            i
            {
                color:red;
                background-color:yellow;
                text-align:center;
                text-transform:capitalize;
                text-decoration:none;
                letter-spacing:4px;
                font-size:50px;
                font-family:fantasy;
                font-weight:thin;
            }
        </style>
    </head>
    <body>
        <i>This is heading tag </i>
    </body>
</html>

```

### Sublime Text Editor

=====

Download link : <https://www.sublimetext.com/download>

### CSS overflow property

=====

The overflow property specifies what should happen if content overflow.

This property specifies whether to clip content or to add scrollbars when an element content is too big to fit in a specified area.

Note:

-----

The overflow property works for block elements with a specified height.

value	Description
visible	The overflow is not clipped. It is rendered outside the element's box and it is the default value.
hidden	The overflow is clipped and the rest of the content will be invisible.
scroll	The overflow is clipped, but a scroll-bar is added to see the rest of the content.
auto	The overflow is clipped, a scroll-bar should be added to the rest of the content.

### overflow-visible

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            border:2px solid black;
            overflow: visible;
        }
    </style>

```

```

    }
</style>
</head>
<body>
    <div>

```

This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags. This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags. This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags.

```

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

```

### overflow:hidden

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            border: 2px solid black;
            overflow: hidden;
        }
    </style>
</head>
<body>
    <div>

```

This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags. This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags. This is html class to learn how to develop web pages and web applications for business requirements. HTML is widely used language on web to create static web pages with performance. It is a tag based language but does not allow us to create custom tags.

```

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

```

### overflow:scroll

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            border: 2px solid black;
            overflow: scroll;
        }
    </style>
</head>
<body>
    <div>

```

```

    }
</style>
</head>
<body>
    <div>
        This is html class to learn how to develop web pages and web applications for business
        requirements.HTML is widely used language on web to create static web pages with performance.It is a tag
        based language but does not allows us to create custom tags.This is html class to learn how to develop web
        pages and web applications for business requirements.HTML is widely used language on web to create static
        web pages with performance.It is a tag based language but does not allows us to create custom tags.This is html
        class to learn how to develop web pages and web applications for business requirements.HTML is widely used
        language on web to create static web pages with performance.It is a tag based language but does not allows us to
        create custom tags.
    </div>
</body>
</html>

```

### **overflow:auto**

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            border:2px solid black;
            overflow: auto;
        }
    </style>
</head>
<body>
    <div>
        This is html class to learn how to develop web pages and web applications for business
        requirements.HTML is widely used language on web to create static web pages with performance.It is a tag
        based language but does not allows us to create custom tags.This is html class to learn how to develop web
        pages and web applications for business requirements.HTML is widely used language on web to create static
        web pages with performance.It is a tag based language but does not allows us to create custom tags.
    </div>
</body>
</html>

```

### **overflow-x**

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            border:2px solid black;
            overflow-x: auto;
        }
    </style>
</head>

```

```

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

```

### overflow-y

-----

```

<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border: 2px solid black;
      overflow-y: auto;
    }
  </style>
</head>
<body>
  <div>
    
  </div>
</body>
</html>

```

### CSS border-radius property

=====

The border-radius property defines the radius of the element's corners.

This property allows us to add rounded borders to elements.

This property can have from one to four values.

ex:

```

border-top-left-radius
border-top-right-radius
border-bottom-right-radius
border-bottom-left-radius

```

ex:1

-----

```

<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border: 2px solid black;
      overflow: hidden;
      margin: 100px auto;
      border-top-left-radius: 5px;
      border-top-right-radius: 10px;
      border-bottom-right-radius: 15px;
      border-bottom-left-radius: 20px;
    }
  </style>

```



```
</head>
<body>
  <div>

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

ex:2

```
----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border:2px solid black;
      overflow: hidden;
      margin: 100px auto;
      border-radius: 5px 10px 15px 20px;
    }
  </style>
</head>
<body>
  <div>

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

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border:2px solid black;
      overflow: hidden;
      margin: 100px auto;
      /* 20px top-right and bottom-left */
      border-radius: 10px 20px 10px;
    }
  </style>
</head>
<body>
  <div>

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

ex:4

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border:2px solid black;
      overflow: hidden;
      margin: 100px auto;
      /* 20px top-left and bottom-right */
      /* 40px top-right and bottom-left */
      border-radius: 20px 40px;
    }
  </style>
</head>
<body>
  <div>

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

ex:5

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border:2px solid black;
      overflow: hidden;
      margin: 100px auto;

      border-radius: 20px;
    }
  </style>
</head>
<body>
  <div>

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

### **CSS box-shadow property**

=====

The box-shadow property attaches one or more shadows to an element.

syntax

-----

box-shadow: none |h-offset v-offset blur spread color

ex:

box-shadow: 2px 2px 3px 10px blue;

### **box-shadow : none**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      border:2px solid black;
      overflow: hidden;
      margin: 100px auto;
      border-radius: 20px;
      box-shadow: none;
    }
  </style>
</head>
<body>
  <div>

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

ex:2

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 300px;
      height: 300px;
      overflow: hidden;
      margin: 100px auto;
      border-radius: 20px;
      box-shadow: 2px 2px 17px 6px #FF0000;
    }
  </style>
</head>
<body>
  <div>

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

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
```

```

<style type="text/css">
    div
    {
        width: 300px;
        height: 300px;
        overflow: hidden;
        margin: 100px auto;
        border-radius: 20px;
        box-shadow: 2px 2px 17px 6px #FF0000 inset;
    }
</style>
</head>
<body>
    <div>

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

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            width: 300px;
            height: 300px;
            overflow: hidden;
            margin: 100px auto;
            border-radius: 20px;
            box-shadow: 2px 2px 12px 3px #FF0000,4px 4px 24px 6px #FFFF00;
        }
    </style>
</head>
<body>
    <div>

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

```

## CSS float property

=====

It is widely used property on a web page.

The float property specifies how an element should float.

value	Description
-----	-----
none	The element does not float.
left	the element floats to the left of its container.
right	The element floats to the right of its container.

### **float:none**

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 200px;
      height: 200px;
      overflow: hidden;
      border:2px solid black;
      float:none;
    }
  </style>
</head>
<body>
  <div></div>
  <div></div>
</body>
</html>
```

### **float:left**

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 200px;
      height: 200px;
      overflow: hidden;
      border:2px solid black;
      float:left;
    }
  </style>
</head>
<body>
  <div></div>
  <div></div>
</body>
</html>
```

### **float:right**

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      width: 200px;
      height: 200px;
      overflow: hidden;
      border:2px solid black;
```

```

float:right;
    }
</style>
</head>
<body>
    <div></div>
    <div></div>
</body>
</html>

```

## CSS Design1

=====

Task1 (folder)

```

|
|-----images (folder)
|
|               |----emberd.jpg
|
|-----css (folder)
|               |----mystyles.css
|
|---index.html

```

## index.html

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add external css -->
    <link rel="stylesheet" type="text/css" href="css/mystyles.css">
</head>
<body>
    <div>
        <p>Web technologies refers to the way computers/devices communicate. with each
other using mark up languages. It invo It is communication. across the web, and create, deliver or manage web
content using hypertext markup language (HTML). □ A web page is a web document which is written in in
HTML
        </p>
    </div>
    <div>
        <p>Web technologies refers to the way computers/devices communicate. with each
other using mark up languages. It invo It is communication. across the web, and create, deliver or manage web
content using hypertext markup language (HTML). □ A web page is a web document which is written in in
HTML
        </p>
    </div>
    <div>
        <p>Web technologies refers to the way computers/devices communicate. with each
other using mark up languages. It invo It is communication. across the web, and create, deliver or manage web
content using hypertext markup language (HTML). □ A web page is a web document which is written in in
HTML
        </p>
    </div>
</body>
</html>

```

### mystyles.css

```
-----
div
{
    width: 250px;
    height: 250px;
    float:left;
    margin: 140px 60px;
    padding: 15px;
    box-shadow: 3px 3px 12px 5px #C3C3C3;
}
div p
{
    text-align: justify;
}
```

### example2:

```
-----

index.html
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add external css -->
    <link rel="stylesheet" type="text/css" href="css/mystyles.css">
</head>
<body>
    <div>
        
    </div>
    <div>
        <p>Web technologies refers to the way computers/devices communicate. with each
other using mark up languages. It invo It is communication. across the web, and create, deliver or manage web
content using hypertext markup language (HTML). □ A web page is a web document which is written in in
HTML.web content using hypertext markup language (HTML). □ A web page is a web document which is
written in in HTML.
    </p>
    </div>
</body>
</html>
```

### mystyles.css

```
-----
div
{
    width: 250px;
    height: 250px;
    float:left;
    margin-top:100px;
    margin-left:10px;
    padding: 15px;
    box-shadow: 3px 3px 12px 5px #C3C3C3;
}
div p
{
    text-align: justify;
```

}

## How many selectors are there in CSS

=====

We have five selectors in CSS.

- 1) element selector
- 2) id selector
- 3) class selector
- 4) group selector
- 5) universal selector

### 1)element selector:

-----

The element selector selects HTML elements based on element name.

Ex:

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        p
        {
            text-align: center;
            color:red;
        }
    </style>
</head>
<body>
    <p>This is paragraph tag</p>
</body>
</html>
```

### 2)id selector:

-----

The id selector uses the id attribute of an HTML element to select a specific element.

The id of an element is unique within a page, so the id selector is used to select one unique element.

To select an element with a specific id, write a hash (#) character, followed by the id of the element.

ex:

----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        #myId
        {
            text-align: center;
            color:red;
            font-size: 30px;
        }
    </style>
</head>
<body>
    <p id="myId">This is paragraph tag</p>
    <p>This is paragraph tag</p>
    <p>This is paragraph tag</p>
</body>
</html>
```



### 3)class selector:

-----

The class selector selects HTML elements with a specific class attribute.

To select elements with a specific class, write a period (.) character, followed by the class name.

ex:

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .myClass
    {
      text-align: center;
      color:red;
      font-size: 30px;
      background-color: yellow;
    }
  </style>
</head>
<body>
  <p class="myClass">This is paragraph tag</p>
  <p>This is paragraph tag</p>
  <p>This is paragraph tag</p>
</body>
</html>
```

ex:

----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .myClass
    {
      text-align: center;
      color:red;
      font-size: 30px;
      background-color: yellow;
    }
  </style>
</head>
<body>
  <p class="myClass">This is paragraph tag</p>
  <p class="myClass">This is paragraph tag</p>
  <p>This is paragraph tag</p>
</body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
```

```

        .myClass1
        {
            text-align: center;
            color:red;
            font-size: 30px;
        }
        .myClass2
        {
            background-color: yellow;
        }
    </style>
</head>
<body>
    <p class="myClass1">This is paragraph tag</p>
    <p class="myClass2">This is paragraph tag</p>
    <p class="myClass1 myClass2">This is paragraph tag</p>
</body>
</html>

```

#### 4)grouping selector:

-----  
 The grouping selector selects all the HTML elements with the same style definitions.

ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        p,h1,div
        {
            color:blue;
            text-align: center;
            text-transform: uppercase;
        }
    </style>
</head>
<body>
    <p>This is paragraph tag</p>
    <h1>This is heading tag</h1>
    <div>This is division tag</div>
</body>
</html>

```

#### 5) universal selector:

-----  
 The universal selector (\*) selects all HTML elements on the page.  
 ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        *

```

```

        {
            color:blue;
            text-align: center;
            text-transform: uppercase;
        }

</style>
</head>
<body>
    <p>This is paragraph tag</p>
    <h1>This is heading tag</h1>
    <div>This is division tag</div>

</body>
</html>

```

## CSS clear property

=====

The clear property specifies on which side of an element floating elements are not allowed to float.

value	Description
-----	-----
none	Default allows floating elements to both the side.
left	No floating elements allowed on the left side.
right	No floating elements allowed on the right side.
both	No floating elements allowed on the both side.

ex:1

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        #box1
        {
            width: 200px;
            height: 200px;
            background-color: red;
            float:left;
        }
        #box2
        {
            width: 200px;
            height: 200px;
            background-color: blue;
            float:right;
        }
        #box3
        {
            width: 100%;
            height: 200px;
            background-color: yellow;
        }

    </style>
</head>
<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>

```

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

### **clear: both**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    #box1
    {
      width: 200px;
      height: 200px;
      background-color: red;
      float:left;
    }
    #box2
    {
      width: 200px;
      height: 200px;
      background-color: blue;
      float:right;
    }
    #box3
    {
      width: 100%;
      height: 200px;
      background-color: yellow;
      clear: both;
    }
  </style>
</head>
<body>
  <div id="box1"></div>
  <div id="box2"></div>
  <div id="box3"></div>
</body>
</html>
```

### **clear:left**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    #box1
    {
      width: 200px;
      height: 300px;
      background-color: red;
      float:left;
    }
    #box2
    {
      width: 200px;
      height: 200px;
      background-color: blue;
```

```

        float:right;
    }
    #box3
    {
        width: 100%;
        height: 200px;
        background-color: yellow;
        clear: left;
    }

</style>
</head>
<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>
</body>
</html>

```

### **clear:right**

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        #box1
        {
            width: 200px;
            height: 300px;
            background-color: red;
            float:left;
        }
        #box2
        {
            width: 200px;
            height: 200px;
            background-color: blue;
            float:right;
        }
        #box3
        {
            width: 100%;
            height: 200px;
            background-color: yellow;
            clear: right;
        }

    </style>
</head>
<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>
</body>
</html>

```

### **CSS List properties**

In HTML, there are two types of lists.

## 1)Order list (<ol>)

-----  
The list items are marked with numbers and letters.

## 2)Unorder list (<ul>)

-----  
The list items are marked with bullets.

The "list-style-type" property specifies the types of list item marker.

### unorderlist

-----  
ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">

    </style>
</head>
<body>
  Courses
  <ul>
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: disc;
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: square;
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:4

```
----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: circle;
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:5

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: none;
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

```

    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>

```

ex:6

```

-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-image: url("images/arrow.png");
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>

```

ex:7

```

----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    ul
    {
      border:2px solid black;
      list-style-position: inside;
    }
    ul li
    {
      border:2px solid red;
    }
  </style>
</head>
<body>
  Courses

```



```

        <ul class="myclass">
            <li>ReactJS</li>
            <li>AngularJS</li>
            <li>NodeJS</li>
            <li>ExpressJS</li>
            <li>VueJS</li>
        </ul>
    </body>
</html>

```

## orderlist

-----

ex:1

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-type: lower-roman;
        }
    </style>
</head>
<body>
    Courses
    <ol class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ol>
</body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-type: upper-roman;
        }
    </style>
</head>
<body>
    Courses
    <ol class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ol>

```

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

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: lower-alpha;
    }
  </style>
</head>
<body>
  Courses
  <ol class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ol>
</body>
</html>
```

ex:4

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: upper-alpha;
    }
  </style>
</head>
<body>
  Courses
  <ol class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ol>
</body>
</html>
```

## CSS table

=====

To specify table borders in CSS , use the border property.

ex:1

```
-----
<!DOCTYPE html>
<html>
```

```

<head>
  <title>IHUB TALENT</title>
  <style type="text/css">

    </style>
</head>
<body>
  <table>
    <tr>
      <th>EID</th>
      <th>ENAME</th>
      <th>ESAL</th>
    </tr>
    <tr>
      <td>101</td>
      <td>Alan</td>
      <td>10000</td>
    </tr>
    <tr>
      <td>102</td>
      <td>Jose</td>
      <td>20000</td>
    </tr>
    <tr>
      <td>103</td>
      <td>Jack</td>
      <td>30000</td>
    </tr>
    <tr>
      <td>104</td>
      <td>Nancy</td>
      <td>40000</td>
    </tr>
    <tr>
      <td>105</td>
      <td>Lucy</td>
      <td>50000</td>
    </tr>
  </table>
</body>
</html>

```

ex:2

```

----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    table,tr,th,td
    {
      border:2px solid black;
    }
  </style>
</head>
<body>
  <table>
    <tr>
      <th>EID</th>
      <th>ENAME</th>

```

```

        <th>ESAL</th>
    </tr>
    <tr>
        <td>101</td>
        <td>Alan</td>
        <td>10000</td>
    </tr>
    <tr>
        <td>102</td>
        <td>Jose</td>
        <td>20000</td>
    </tr>
    <tr>
        <td>103</td>
        <td>Jack</td>
        <td>30000</td>
    </tr>
    <tr>
        <td>104</td>
        <td>Nancy</td>
        <td>40000</td>
    </tr>
    <tr>
        <td>105</td>
        <td>Lucy</td>
        <td>50000</td>
    </tr>
</table>
</body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
        }
        th,td
        {
            border:2px solid black;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
    </table>

```

```

        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
        <tr>
            <td>105</td>
            <td>Lucy</td>
            <td>50000</td>
        </tr>
    </table>
</body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        tr
        {
            border-bottom: 1px solid black;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>

```

```

        <td>103</td>
        <td>Jack</td>
        <td>30000</td>
    </tr>
    <tr>
        <td>104</td>
        <td>Nancy</td>
        <td>40000</td>
    </tr>
    <tr>
        <td>105</td>
        <td>Lucy</td>
        <td>50000</td>
    </tr>
</table>
</body>
</html>

```

ex:5

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        th,td
        {
            border:2px solid black;
        }
        tr:hover
        {
            background-color: #C2C2C2;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>

```

```

        <td>30000</td>
    </tr>
    <tr>
        <td>104</td>
        <td>Nancy</td>
        <td>40000</td>
    </tr>
    <tr>
        <td>105</td>
        <td>Lucy</td>
        <td>50000</td>
    </tr>
</table>
</body>
</html>

```

ex:6

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        th,td
        {
            border:2px solid black;
        }
        tr:nth-child(even)
        {
            background-color: #C2C2C2;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
    </table>
</body>
</html>

```

```

        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
        <tr>
            <td>105</td>
            <td>Lucy</td>
            <td>50000</td>
        </tr>
    </table>
</body>
</html>

```

## CSS display property

=====

The display property specifies the display behaviour of an element.

syntax

-----

display: value;

value	description
none	The element is completely removed.
inline	displays an element as an inline element. Any height and width properties will not effect.
block	Displays an element as block element. IT starts on a new line and takes up the whole width.
inline-block	displays an element as an inline-level container. The element itself is formatting as an inline element. but we can apply height and width values.
inherit	Inherits this property from its parent element.

## display:none

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        h1
        {
            display: none;
        }
        p
        {
            display: none;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
    <p>This is paragraph tag</p>
</body>
</html>

```



## **display:block**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    span
    {
      display: block;
      border:2px solid black;
    }
  </style>
</head>
<body>
  <span>This is span tag 1</span>
  <span>This is span tag 2</span>
  <span>This is span tag 3</span>
</body>
</html>
```

## **display:inline**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      border:2px solid black;
      display: inline;
    }
  </style>
</head>
<body>
  <div>This is div tag 1</div>
  <div>This is div tag 2</div>
  <div>This is div tag 3</div>
</body>
</html>
```

Inline elements does not support height and width property.

ex:

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      border:2px solid black;
      display: inline;
      width: 300px;
    }
  </style>
</head>
<body>
```

```

        <div>This is div tag1</div>
        <div>This is div tag2</div>
        <div>This is div tag3</div>
    </body>
</html>

```

To overcome this limitation we need to use display: inline-block .

### display:inline-block

```

=====
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            border:2px solid black;
            display: inline-block;
            width: 300px;
        }
    </style>
</head>
<body>
    <div>This is div tag1</div>
    <div>This is div tag2</div>
    <div>This is div tag3</div>

</body>
</html>

```

### CSS Design

```

=====
Task2
|
|-----images
|         |
|         |-----facebook.png
|
|-----css
|         |
|         |-----mystyles.css
|
|---index.html
|

```

### index.html

```

=====
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>

    <!-- add favicon -->
    <link rel="icon" href="images/facebook.png">

    <!-- add external css -->
    <link rel="stylesheet" type="text/css" href="css/mystyles.css">

</head>

```

```

<body>
    <header>
        <h1>I<span>HUB</span>TALENT</h1>
        <ul>
            <li><a href="">HOME</a></li>
            <li><a href="">ABOUT</a></li>
            <li><a href="">SERVICE</a></li>
            <li><a href="">PORTFOLIO</a></li>
            <li><a href="">CONTACT</a></li>
        </ul>
    </header>
</body>
</html>

```

## mystyles.css

```

-----
*
{
    padding: 0;
    margin: 0;
}
header
{
    padding: 10px;
    background-color: #eccc68;
    height: 50px;
}
header h1
{
    float:left;
    margin-left:30px;
}
header h1 span
{
    color:#FFF;
    font-style: italic;
}
header ul
{
    float:right;
}
header ul li
{
    display: inline-block;
    margin: 0px 30px;
    line-height: 50px;
}
header ul li a
{
    text-decoration: none;
    color:#000;
    font-size:18px;
}
header ul li a:hover
{
    text-decoration: none;
    color:#FFF;
}

```

## CSS clear property

The clear property specifies on which side of an element floating elements are not allowed to float.

value	Description
none	Default allows floating elements to both the side.
left	No floating elements allowed on the left side.
right	No floating elements allowed on the right side.
both	No floating elements allowed on the both side.

ex:1

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    #box1
    {
      width: 200px;
      height: 200px;
      background-color: red;
      float:left;
    }
    #box2
    {
      width: 200px;
      height: 200px;
      background-color: blue;
      float:right;
    }
    #box3
    {
      width: 100%;
      height: 200px;
      background-color: yellow;
    }
  </style>
</head>
<body>
  <div id="box1"></div>
  <div id="box2"></div>
  <div id="box3"></div>
</body>
</html>
```

### clear: both

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    #box1
    {
      width: 200px;
```

```

        height: 200px;
        background-color: red;
        float:left;
    }
    #box2
    {
        width: 200px;
        height: 200px;
        background-color: blue;
        float:right;
    }
    #box3
    {
        width: 100%;
        height: 200px;
        background-color: yellow;
        clear: both;
    }

</style>
</head>
<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>
</body>
</html>

```

clear:left

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        #box1
        {
            width: 200px;
            height: 300px;
            background-color: red;
            float:left;
        }
        #box2
        {
            width: 200px;
            height: 200px;
            background-color: blue;
            float:right;
        }
        #box3
        {
            width: 100%;
            height: 200px;
            background-color: yellow;
            clear: left;
        }
    </style>
</head>

```

```

<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>
</body>
</html>

```

### **clear:right**

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        #box1
        {
            width: 200px;
            height: 300px;
            background-color: red;
            float:left;
        }
        #box2
        {
            width: 200px;
            height: 200px;
            background-color: blue;
            float:right;
        }
        #box3
        {
            width: 100%;
            height: 200px;
            background-color: yellow;
            clear: right;
        }
    </style>
</head>
<body>
    <div id="box1"></div>
    <div id="box2"></div>
    <div id="box3"></div>
</body>
</html>

```

### **CSS List properties**

=====

In HTML, there are two types of lists.

#### **1)Order list (<ol>)**

-----

The list items are marked with numbers and letters.

#### **2)Unorder list (<ul>)**

-----

The list items are marked with bullets.

The "list-style-type" property specifies the types of lists item marker.

## unorderedlist

-----

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">

    </style>
</head>
<body>
  Courses
  <ul>
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: disc;
    }
  </style>
</head>
<body>
  Courses
  <ul class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ul>
</body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
```

```

        list-style-type: square;
    }
</style>
</head>
<body>
    Courses
    <ul class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ul>
</body>
</html>

```

ex:4

```

----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-type: circle;
        }
    </style>
</head>
<body>
    Courses
    <ul class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ul>
</body>
</html>

```

ex:5

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-type: none;
        }
    </style>
</head>
<body>
    Courses
    <ul class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
    </ul>

```



```

        <li>ExpressJS</li>
        <li>VueJS</li>
    </ul>
</body>
</html>

```

ex:6

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-image: url("images/arrow.png");
        }
    </style>
</head>
<body>
    Courses
    <ul class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ul>
</body>
</html>

```

ex:7

```

----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        ul
        {
            border:2px solid black;
            list-style-position: inside;
        }
        ul li
        {
            border:2px solid red;
        }
    </style>
</head>
<body>
    Courses
    <ul class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ul>
</body>
</html>

```

## orderlist

-----

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: lower-roman;
    }
  </style>
</head>
<body>
  Courses
  <ol class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ol>
</body>
</html>
```

ex:2

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    .myclass
    {
      list-style-type: upper-roman;
    }
  </style>
</head>
<body>
  Courses
  <ol class="myclass">
    <li>ReactJS</li>
    <li>AngularJS</li>
    <li>NodeJS</li>
    <li>ExpressJS</li>
    <li>VueJS</li>
  </ol>
</body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
```

```

        .myclass
        {
            list-style-type: lower-alpha;
        }
    </style>
</head>
<body>
    Courses
    <ol class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ol>
</body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        .myclass
        {
            list-style-type: upper-alpha;
        }
    </style>
</head>
<body>
    Courses
    <ol class="myclass">
        <li>ReactJS</li>
        <li>AngularJS</li>
        <li>NodeJS</li>
        <li>ExpressJS</li>
        <li>VueJS</li>
    </ol>
</body>
</html>

```

## CSS table

=====

To specify table borders in CSS , use the border property.

ex:1

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">

    </style>
</head>
<body>
    <table>
        <tr>

```

```

        <th>EID</th>
        <th>ENAME</th>
        <th>ESAL</th>
    </tr>
    <tr>
        <td>101</td>
        <td>Alan</td>
        <td>10000</td>
    </tr>
    <tr>
        <td>102</td>
        <td>Jose</td>
        <td>20000</td>
    </tr>
    <tr>
        <td>103</td>
        <td>Jack</td>
        <td>30000</td>
    </tr>
    <tr>
        <td>104</td>
        <td>Nancy</td>
        <td>40000</td>
    </tr>
    <tr>
        <td>105</td>
        <td>Lucy</td>
        <td>50000</td>
    </tr>
</table>
</body>
</html>

```

ex:2

----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table,tr,th,td
        {
            border:2px solid black;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>

```

```

                <td>Jose</td>
                <td>20000</td>
            </tr>
            <tr>
                <td>103</td>
                <td>Jack</td>
                <td>30000</td>
            </tr>
            <tr>
                <td>104</td>
                <td>Nancy</td>
                <td>40000</td>
            </tr>
            <tr>
                <td>105</td>
                <td>Lucy</td>
                <td>50000</td>
            </tr>
        </table>
    </body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
        }
        th,td
        {
            border:2px solid black;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
    </table>
</body>
</html>

```

```

        </tr>
        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
        <tr>
            <td>105</td>
            <td>Lucy</td>
            <td>50000</td>
        </tr>
    </table>
</body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        tr
        {
            border-bottom: 1px solid black;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
    </table>

```

```

        <tr>
            <td>105</td>
            <td>Lucy</td>
            <td>50000</td>
        </tr>
    </table>
</body>
</html>

```

ex:5

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        th,td
        {
            border:2px solid black;
        }
        tr:hover
        {
            background-color: #C2C2C2;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
        <tr>
            <td>105</td>

```

```

                <td>Lucy</td>
                <td>50000</td>
            </tr>
        </table>
    </body>
</html>

```

ex:6

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        table
        {
            border-collapse: collapse;
            width: 100%;
        }
        th,td
        {
            border:2px solid black;
        }
        tr:nth-child(even)
        {
            background-color: #C2C2C2;
        }
    </style>
</head>
<body>
    <table>
        <tr>
            <th>EID</th>
            <th>ENAME</th>
            <th>ESAL</th>
        </tr>
        <tr>
            <td>101</td>
            <td>Alan</td>
            <td>10000</td>
        </tr>
        <tr>
            <td>102</td>
            <td>Jose</td>
            <td>20000</td>
        </tr>
        <tr>
            <td>103</td>
            <td>Jack</td>
            <td>30000</td>
        </tr>
        <tr>
            <td>104</td>
            <td>Nancy</td>
            <td>40000</td>
        </tr>
        <tr>
            <td>105</td>
            <td>Lucy</td>
            <td>50000</td>
        </tr>
    </table>
</body>
</html>

```



```

        </tr>
    </table>
</body>
</html>

```

## CSS display property

=====

The display property specifies the display behaviour of an element.

syntax

-----

display: value;

value	description
none	The element is completely removed.
inline	displays an element as an inline element. Any height and width properties will not effect.
block	Displays an element as block element. IT starts on a new line and takes up the whole width.
inline-block	displays an element as an inline-level container. The element itself is formatting as an inline element. but we can apply height and width values.
inherit	Inherits this property from its parent element.

## display:none

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        h1
        {
            display: none;
        }
        p
        {
            display: none;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
    <p>This is paragraph tag</p>
</body>
</html>

```

## display:block

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        span

```

```

        {
            display: block;
            border:2px solid black;
        }
    </style>
</head>
<body>
    <span>This is span tag1</span>
    <span>This is span tag2</span>
    <span>This is span tag3</span>

</body>
</html>

```

## display:inline

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            border:2px solid black;
            display: inline;
        }
    </style>
</head>
<body>
    <div>This is div tag1</div>
    <div>This is div tag2</div>
    <div>This is div tag3</div>

</body>
</html>

```

Inline elements does not support height and width property.

ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>IHUB TALENT</title>
    <style type="text/css">
        div
        {
            border:2px solid black;
            display: inline;
            width: 300px;
        }
    </style>
</head>
<body>
    <div>This is div tag1</div>
    <div>This is div tag2</div>
    <div>This is div tag3</div>

</body>
</html>

```

To overcome this limitation we need to use display: inline-block .

## display:inline-block

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    div
    {
      border:2px solid black;
      display: inline-block;
      width: 300px;
    }
  </style>
</head>
<body>
  <div>This is div tag1</div>
  <div>This is div tag2</div>
  <div>This is div tag3</div>
</body>
</html>
```

## CSS Design

```
=====
Task2
|
|-----images
|       |
|       |-----facebook.png
|
|-----css
|       |
|       |-----mystyles.css
|
|---index.html
|
```

## index.html

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>

  <!-- add favicon -->
  <link rel="icon" href="images/facebook.png">

  <!-- add external css -->
  <link rel="stylesheet" type="text/css" href="css/mystyles.css">

</head>
<body>
  <header>
    <h1>I<span>HUB</span>TALENT</h1>
    <ul>
      <li><a href="">HOME</a></li>
      <li><a href="">ABOUT</a></li>
      <li><a href="">SERVICE</a></li>
      <li><a href="">PORTFOLIO</a></li>
      <li><a href="">CONTACT</a></li>
```

```

        </ul>
    </header>
</body>
</html>

```

### **mystyles.css**

```

-----
*
{
    padding: 0;
    margin: 0;
}
header
{
    padding: 10px;
    background-color: #eccc68;
    height: 50px;
}
header h1
{
    float:left;
    margin-left:30px;
}
header h1 span
{
    color:#FFF;
    font-style: italic;
}
header ul
{
    float:right;
}
header ul li
{
    display: inline-block;
    margin: 0px 30px;
    line-height: 50px;
}
header ul li a
{
    text-decoration: none;
    color:#000;
    font-size:18px;
}
header ul li a:hover
{
    text-decoration: none;
    color:#FFF;
}

```

### **box-sizing property**

=====

The box-sizing property defines how the width and height of an element are calculated: should they include padding and borders, or not.

### **box-sizing:content-box**

-----

It will take separate width, border and padding. But it will not take margin.

ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      border:2px solid blue;
      padding:10px ;
      box-sizing: content-box;
    }
  </style>
</head>
<body>
  <div id="box">

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

### **box-sizing: border-box**

-----

It includes width, border and padding. But it will not include margin.

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      border:2px solid blue;
      padding:10px ;
      box-sizing: border-box;
    }
  </style>
</head>
<body>
  <div id="box">

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

### **CSS transform**

=====

CSS transform property allows use to move ,rotate or skew elements.  
CSS transform property contains following transformation methods.

ex:

```
translate()
rotate()
```

scaleX()  
scaleY()  
skewX()  
skewY()  
skew()

### **transform: translate()**

-----

The translate() method moves an element from its current position to the parameters given by the X-axis and the Y-axis.

ex:

---

```
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      transform: translate(400px,100px);
    }
  </style>
</head>
<body>
  <div id="box">
  </div>
</body>
</html>
```

### **transform: rotate()**

-----

The rotate() method rotates an element clockwise or counter-clockwise according to a given degree.

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transform: rotate(30deg);
    }
  </style>
</head>
<body>
  <div id="box">
  </div>
</body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transform: rotate(-30deg);
    }
  </style>
</head>
<body>
  <div id="box">
  </div>
</body>
</html>
```

If we pass negative value then it will rotate counter-clock wise.

### **transform: scaleX()**

-----

The scaleX() method increases and decreases the width of the element.

```
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      border: 2px solid black;
      box-sizing: border-box;
      margin: 100px auto;
      transform: scaleX(2);
    }
  </style>
</head>
<body>
  <div id="box">
    This is div tag
  </div>
</body>
</html>
```

### **transform: scaleY()**

-----

The scaleY() method increases and decreases the height of the element.

ex:

```
<!DOCTYPE html>
<html>
<head>
```

```

<title>facebook</title>
<style type="text/css">
    #box
    {
        width: 200px;
        height: 200px;
        border:2px solid black;
        box-sizing: border-box;
        margin: 100px auto;
        transform: scaleY(2);
    }
</style>
</head>
<body>
    <div id="box">
        This is div tag
    </div>
</body>
</html>

```

### **transform: scale()**

-----  
The scale() method increase and decrease the size of an element according to the parameters given for the width and height .

ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            border:2px solid black;
            box-sizing: border-box;
            margin: 100px auto;
            transform: scale(2);
        }
    </style>
</head>
<body>
    <div id="box">
        This is div tag
    </div>
</body>
</html>

```

### **transform: skewX()**

-----  
The skewX() method skews an element along the X-axis by the given angle.

ex

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box

```



```

        {
            width: 200px;
            height: 200px;
            border:2px solid black;
            box-sizing: border-box;
            margin: 100px auto;
            transform: skewX(30deg);
        }
    </style>
</head>
<body>
    <div id="box">
        This is div tag
    </div>
</body>
</html>

```

### **transform: skewY()**

-----

The skewY() method skews an element along with y-axis by the given angle.

ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            border:2px solid black;
            box-sizing: border-box;
            margin: 100px auto;
            transform: skewY(30deg);
        }
    </style>
</head>
<body>
    <div id="box">
        This is div tag
    </div>
</body>
</html>

```

### **transform : skew()**

-----

The skew() method skews an element along the X-axis and Y-axis by the given angle.

ex:

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;

```

```

        border:2px solid black;
        box-sizing: border-box;
        margin: 100px auto;
        transform: skew(30deg);
    }
</style>
</head>
<body>
    <div id="box">
        This is div tag
    </div>
</body>
</html>

```

## CSS transition property

=====  
 CSS transition property allows us to change property value smoothly , over a given duration.  
 To see the effects on an element ,we need to use mouse over to the element.

We have following properties in CSS transition.  
 ex:

```

    transition-delay
    transition-duration
    transition-property
    transition-timing-function
    transition

```

## transition-property

ex:1

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            background-color: red;
            box-sizing: border-box;
            margin: 100px auto;
            transition-property: width,height;
        }
        #box:hover
        {
            width:400px;
            height: 400px;
        }
    </style>
</head>
<body>
    <div id="box">

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

```

ex:2

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transition-property: all;
    }
    #box:hover
    {
      width:400px;
      height: 400px;
    }
  </style>
</head>
<body>
  <div id="box">

  </div>

</body>
</html>
```

### **transition-duration**

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transition-property: all;
      transition-duration: 2s;
    }
    #box:hover
    {
      width:400px;
      height: 400px;
    }
  </style>
</head>
<body>
  <div id="box">

  </div>

</body>
</html>
```

## transition-timing-function

ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transition-property: all;
      transition-duration: 2s;
      transition-timing-function: linear;
    }
    #box:hover
    {
      width:400px;
      height: 400px;
    }
  </style>
</head>
<body>
  <div id="box">
  </div>
</body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>
  <style type="text/css">
    #box
    {
      width: 200px;
      height: 200px;
      background-color: red;
      box-sizing: border-box;
      margin: 100px auto;
      transition-property: all;
      transition-duration: 2s;
      transition-timing-function: ease-in;
    }
    #box:hover
    {
      width:400px;
      height: 400px;
    }
  </style>
</head>
<body>
```

```
        <div id="box">
        </div>
</body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            background-color: red;
            box-sizing: border-box;
            margin: 100px auto;
            transition-property: all;
            transition-duration: 2s;
            transition-timing-function: ease-out;
        }
        #box:hover
        {
            width:400px;
            height: 400px;
        }
    </style>
</head>
<body>
    <div id="box">
    </div>
</body>
</html>
```

ex:4

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            background-color: red;
            box-sizing: border-box;
            margin: 100px auto;
            transition-property: all;
            transition-duration: 2s;
            transition-timing-function: ease-in-out;
        }
        #box:hover
        {
            width:400px;
            height: 400px;
        }
    </style>
```

```

</head>
<body>
    <div id="box">
    </div>
</body>
</html>

```

### transition-delay

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            background-color: red;
            box-sizing: border-box;
            margin: 100px auto;
            transition-property: all;
            transition-duration: 2s;
            transition-timing-function: ease-in-out;
            transition-delay: 3s;
        }
        #box:hover
        {
            width:400px;
            height: 400px;
        }
    </style>
</head>
<body>
    <div id="box">
    </div>
</body>
</html>

```

### transition (shorthand property)

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        #box
        {
            width: 200px;
            height: 200px;
            background-color: red;
            box-sizing: border-box;
            margin: 100px auto;
            transition:2s all linear 3s;
        }
        #box:hover
        {
            width:400px;

```

```

        height: 400px;
        background-color: blue;
    }
</style>
</head>
<body>
    <div id="box">
    </div>
</body>
</html>

```

## CSS Design 1

```

=====
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        img
        {
            width: 300px;
            height: 300px;
            margin-top: 100px;
            transition: all 2s linear;
        }
        img:hover
        {
            transform: rotate(360deg);
        }
    </style>
</head>
<body>
    <center>
        
    </center>
</body>
</html>

```

## CSS Design 2

```

=====
<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        img
        {
            width: 300px;
            height: 300px;
            margin: 120px 50px;
            filter: grayscale(100%);
            transition: all 1s ease-in-out;
        }
        img:hover
        {
            transform: scale(1.2,1.2);
            filter: grayscale(0%);
        }
    </style>
</head>

```

```

<body>
    
    
    
</body>
</html>

```

## CSS opacity property

=====

The opacity property sets the opacity level for an element.

The opacity-level describes the transparency-level, where 1 is not transparent at all, 0.5 is 50% see-through, and 0 is completely transparent.

ex:1

----

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        div
        {
            width: 200px;
            height: 200px;
            background-color: red;
            opacity: 1;
        }
    </style>
</head>
<body>
    <div></div>
</body>
</html>

```

ex:2

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>facebook</title>
    <style type="text/css">
        div
        {
            width: 200px;
            height: 200px;
            background-color: red;
            opacity: .5;
        }
    </style>
</head>
<body>
    <div></div>
</body>
</html>

```

ex:3

-----

```

<!DOCTYPE html>
<html>

```



```

<head>
  <title>facebook</title>
  <style type="text/css">
    div
    {
      width: 200px;
      height: 200px;
      background-color: red;
      opacity: .1;
    }
  </style>
</head>
<body>
  <div></div>
</body>
</html>

```

### CSS Design 3

=====

#### index.html

-----

```

<!DOCTYPE html>
<html>
<head>
  <title>facebook</title>

  <!-- add external css -->
  <link rel="stylesheet" type="text/css" href="css/mystyles.css">

</head>
<body>
  <div class="container">
    
    
    
  </div>
</body>
</html>

```

#### mystyles.css

-----

```

*
{
  margin: 0;
  padding: 0;
}
.container
{
  width: 1000px;
  height: 300px;
  box-sizing: border-box;
  margin: 100px auto;
}
.container img
{
  width: 300px;
  height: 300px;
  margin: 0 14px;
  transition: 1s all linear ;
}

```

```
.container:hover img
{
    opacity: .5;
}
.container img:hover
{
    opacity: 1;
    transform: scale(1.2);
}
```

## CSS position property

The position property specifies the type of positioning method used for an element (static, relative, absolute, fixed, or sticky).

The following are the list of values to position property.

### static

It is default value. Elements render in order, as they appear in the document flow

### absolute

The element is positioned relative to its first positioned (not static) ancestor element

### fixed

The element is positioned relative to the browser window

### relative

The element is positioned relative to its normal position, so "left:20px" adds 20 pixels to the element's LEFT position.

### sticky

The element is positioned based on the user's scroll position

css position property mandatory should have following properties.

- i)left
- ii)right
- iii)top
- iv)bottom

### position: static

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        img
        {
            width: 200px;
            height: 200px;
            position: static;
            top:0;
            left: 0;
        }
    </style>
```

```

</head>
<body>
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
  
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
</body>
</html>

```

### position: absolute

```

-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    img
    {
      width: 200px;
      height: 200px;
      position: absolute;
      top: 100px;
      left: 100px;
    }
  </style>
</head>
<body>
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>
  
  <p>
    Web technologies refers to the way computers/devices communicate. with each other using
    mark up languages. It involves It is communication. across the web, and create, deliver or manage web content
    using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
  </p>

```

```
<p>
Web technologies refers to the way computers/devices communicate with each other using
markup languages. It involves communication across the web, and create, deliver or manage web content
using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
</p>
<p>
Web technologies refers to the way computers/devices communicate with each other using
markup languages. It involves communication across the web, and create, deliver or manage web content
using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
</p>
<p>
Web technologies refers to the way computers/devices communicate with each other using
markup languages. It involves communication across the web, and create, deliver or manage web content
using hypertext markup language (HTML). □ A web page is a web document which is written in HTML
</p>
</body>
</html>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

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

### **position:fixed**

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    img
    {
      width: 200px;
      height: 200px;
      position: fixed;
      top:0px;
      left:0px;
    }
  </style>
</head>
<body>
  <p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>

<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
<p>
```

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
</body>  
</html>

### **position:sticky**

-----  
<!DOCTYPE html>  
<html>  
<head>  
    <title>MyPage!</title>  
    <style type="text/css">  
        img  
        {  
            width: 200px;  
            height: 200px;  
            position: sticky;  
            top:0px;  
            left:0px;  
        }  
    </style>  
</head>  
<body>  
    <p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  
<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

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</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>

</body>

</html>

## CSS z-index property

=====

The z-index property specifies the stack order of an element.

An element with greater stack order is always in front of an element with a lower stack order.

Note: z-index only works on positioned elements.

ex:1

-----

<!DOCTYPE html>

<html>

<head>

<title>MyPage!</title>

```

<style type="text/css">
    img
    {
        width: 200px;
        height: 200px;
        position: absolute;
        top: 10px;
        left: 100px;
        z-index: 1;
    }
</style>
</head>
<body>
    <p>

```

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML. Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
```

```
<p>
```

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML. Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

```
</p>
```

```

```

```
</body>
```

```
</html>
```

ex:2

```
----
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>MyPage!</title>
```

```
<style type="text/css">
```

```
    img
```

```
    {
```

```
        width: 200px;
```

```
        height: 200px;
```

```
        position: absolute;
```

```
        top: 10px;
```

```
        left: 100px;
```

```
        z-index: -1;
```

```
    }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
    <p>
```

Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML. Web technologies refers to the way computers/devices communicate. with each other using mark up languages. It involves It is communication. across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML



</p>  
<p>

Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML. Web technologies refers to the way computers/devices communicate with each other using mark up languages. It involves communication across the web, and create, deliver or manage web content using hypertext markup language (HTML). □ A web page is a web document which is written in HTML

</p>  


</body>  
</html>

## CSS flexbox

=====

Flexbox is a one-dimensional layout method for laying out items in rows and columns. CSS flexbox is a better way to align items into a container. Flexbox = flexible + box.

To create a flexbox model, we need to define a "flex-container".

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .container
    {
      width: 900px;
      height: 400px;
      border: 2px solid black;
      box-sizing: border-box;
    }
    .container .item
    {
      width: 150px;
      height: 150px;
      background-color: yellow;
      border: 2px solid black;
      box-sizing: border-box;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="item">box1</div>
    <div class="item">box2</div>
    <div class="item">box3</div>
    <div class="item">box4</div>
    <div class="item">box5</div>
    <div class="item">box6</div>
  </div>

</body>
</html>
```

ex:2

```
----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .container
    {
      width: 1000px;
      height: 400px;
      border:2px solid black;
      box-sizing: border-box;
      display: flex;

    }
    .container .item
    {
      width: 150px;
      height: 150px;
      background-color: yellow;
      border:2px solid black;
      box-sizing: border-box;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="item">box 1</div>
    <div class="item">box2</div>
    <div class="item">box3</div>
    <div class="item">box4</div>
    <div class="item">box5</div>
    <div class="item">box6</div>
  </div>
</body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .container
    {
      width: 1000px;
      height: 400px;
      border:2px solid black;
      box-sizing: border-box;
      display: flex;
      flex-direction: row;
    }
    .container .item
    {
      width: 150px;
      height: 150px;
      background-color: yellow;
      border:2px solid black;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="item">box 1</div>
    <div class="item">box2</div>
    <div class="item">box3</div>
    <div class="item">box4</div>
    <div class="item">box5</div>
    <div class="item">box6</div>
  </div>
</body>
</html>
```

```

        box-sizing: border-box;
    }
</style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-direction: row-reverse;
        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:5

```

----
<!DOCTYPE html>
<html>
<head>

```

```

<title>MyPage!</title>
<style type="text/css">
    .container
    {
        width: 1000px;
        height: 400px;
        border:2px solid black;
        box-sizing: border-box;
        display: flex;
        flex-direction: column;
    }
    .container .item
    {
        width: 150px;
        height: 150px;
        background-color: yellow;
        border:2px solid black;
        box-sizing: border-box;
    }
</style>
</head>
<body>
    <div class="container">
        <div class="item">box 1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:6

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-direction: column-reverse;
        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>

```

```

        <div class="container">
            <div class="item">box 1</div>
            <div class="item">box2</div>
            <div class="item">box3</div>
            <div class="item">box4</div>
            <div class="item">box5</div>
            <div class="item">box6</div>
        </div>
</body>
</html>

```

ex:7

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-direction: row;
            flex-wrap: nowrap;
        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box 1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:8

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;

```

```

        height: 400px;
        border:2px solid black;
        box-sizing: border-box;
        display: flex;
        flex-direction: row;
        flex-wrap: wrap;
    }
    .container .item
    {
        width: 150px;
        height: 150px;
        background-color: yellow;
        border:2px solid black;
        box-sizing: border-box;
    }
</style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:9

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-flow: row wrap;
        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
    </div>
</body>
</html>

```

```

        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:10

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-flow: row wrap;
            justify-content: center;
        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:11

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;

```

```

        display: flex;
        flex-flow: row wrap;
        justify-content: center;
        align-items: center;
    }
    .container .item
    {
        width: 150px;
        height: 150px;
        background-color: yellow;
        border: 2px solid black;
        box-sizing: border-box;
    }
</style>
</head>
<body>
    <div class="container">
        <div class="item">box 1</div>
        <div class="item">box 2</div>
        <div class="item">box 3</div>
        <div class="item">box 4</div>
        <div class="item">box 5</div>
        <div class="item">box 6</div>
    </div>
</body>
</html>

```

ex:12

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border: 2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-flow: row wrap;
            justify-content: space-between;

        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border: 2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box 1</div>
        <div class="item">box 2</div>
        <div class="item">box 3</div>
    </div>
</body>
</html>

```



```

        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

ex:13

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 1000px;
            height: 400px;
            border:2px solid black;
            box-sizing: border-box;
            display: flex;
            flex-flow: row wrap;
            justify-content: space-around;

        }
        .container .item
        {
            width: 150px;
            height: 150px;
            background-color: yellow;
            border:2px solid black;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="item">box1</div>
        <div class="item">box2</div>
        <div class="item">box3</div>
        <div class="item">box4</div>
        <div class="item">box5</div>
        <div class="item">box6</div>
    </div>
</body>
</html>

```

## CSS Gradients

=====

CSS gradients let you display smooth transitions between two or more specified colors.  
CSS defines three types of gradients:

- 1)Linear Gradients (goes down/up/left/right/diagonally)
- 2)Radial Gradients (defined by their center)
- 3)Conic Gradients (rotated around a center point)

## linear-gradient

ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background: linear-gradient(yellow,red);
    }
  </style>
</head>
<body>
</body>
</html>
```

ex:2

```
---
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background: linear-gradient(red,yellow);
    }
  </style>
</head>
<body>
</body>
</html>
```

ex:3

```
----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background: linear-gradient(to left,yellow,red);
    }
  </style>
</head>
<body>
</body>
</html>
```

ex:4

```
-----
<!DOCTYPE html>
<html>
```

```

<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background: linear-gradient(to right,yellow,red);
    }
  </style>
</head>
<body>
</body>
</html>

```

### conic-gradient

-----

ex:

---

```

<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background-image: conic-gradient(yellow,red);
    }
  </style>
</head>
<body>
</body>
</html>

```

### radial-gradient

-----

```

<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    body
    {
      height: 100vh;
      background-image: radial-gradient(yellow,red);
    }
  </style>
</head>
<body>
</body>
</html>

```

## Google Fonts

=====

### CSS Google Fonts

=====

If we do not want to use any of the standard fonts in HTML, you can use Google Fonts. Google Fonts are free to use, and have more than 1000 fonts to choose.

To use any google fonts we need to use below url.

ex:

<https://fonts.google.com/>

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <style type="text/css">
    @import url('https://fonts.googleapis.com/css2?family=Dancing+Script&display=swap');
    body
    {
      height: 100vh;
      display: flex;
      justify-content: center;
      align-items: center;
      background: linear-gradient(#F79F1F,#C4E538) ;
      font-family: 'Dancing Script', cursive;
    }
  </style>
</head>
<body>
  <h1>Welcome to Google Fonts</h1>
</body>
</html>
```

Note:

-----

@import we need to place inside <style> tag.

ex:2

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>IHUB TALENT</title>
  <link href="https://fonts.googleapis.com/css2?family=Dancing+Script&display=swap" rel="stylesheet">
  <style type="text/css">
    body
    {
      height: 100vh;
      display: flex;
      justify-content: center;
      align-items: center;
      background: linear-gradient(#F79F1F,#C4E538) ;
      font-family: 'Dancing Script', cursive;
    }
  </style>
</head>
<body>
  <h1>Welcome to Google Fonts</h1>
</body>
</html>
```

Note:

-----

<link> tag we need to place inside <head> tag.

CSS forms

=====

Form is used to accept the data from the enduser and it will forward the data to server or database for processing.

Task3

```
|
|-----images
|         |
|         |---micky.png
|
|-----css
|         |
|         |---mystyles.css
|
|-----index.html
```

index.html

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add external css -->
    <link rel="stylesheet" type="text/css" href="css/mystyles.css">

</head>
<body>

    <div class="container">
        <div class="box1">
            <h1>Login</h1>
            <form action="">
                <table>
                    <tr>
                        <td><input type="text" name="username"
                            placeholder="username" autocomplete="off"
required/></td>
                    </tr>
                    <tr>
                        <td><input type="password" name="password"
                            placeholder="password" required="" /></td>
                    </tr>
                    <tr>
                        <td><input type="submit" value="submit"/></td>
                    </tr>
                </table>
            </form>
        </div>
        <div class="box2">
            
        </div>
    </div>
```

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

mystyles.css

```
-----
*
{
    padding: 0;
    margin: 0;
}
body
{
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
}
.container
{
    width: 800px;
    height: 400px;
    box-sizing: border-box;
    box-shadow: 2px 2px 19px 9px #C3C3C3;
}
.container .box1
{
    width: 400px;
    height: 400px;
    box-sizing: border-box;
    background-color:red;
    float:left;
}
.container .box1 h1
{
    color: #FFFFFF;
    font-style: italic;
    font-family: monospace;
    text-align: center;
    padding:50px 0;
}
.container .box1 form
{
    margin: 0 45px;
}
.container .box1 input[type="text"],input[type="password"]
{
    width: 300px;
    height: 35px;
    margin: 10px 0;
    border-radius: 15px;
    border:none;
}
.container .box1 input[type="submit"]
{
    width: 300px;
    padding: 5px;
    margin-top: 20px;
    color:red;
}
```

```

        font-size: 20px;
        border:none;
    }
.container .box1 input[placeholder]
{
    text-align: center;
    font-size: 22px;
}

.container .box2
{
    width: 400px;
    height: 400px;
    box-sizing: border-box;
    float:left;
}
.container .box2 img
{
    width: 100%;
    height: 100%;
}

```

## CSS Grid layout

The CSS grid layout module offers a grid-based layout system with rows and columns.

Grid layout makes easier to design web pages without having a use of floats and positioning tag.

A grid layout consists of a parent element , with one or more child elements.

ex:1

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 90%;
            height: 500px;
            border:2px solid black;
        }
        .box1{ background-color: red}
        .box2{ background-color: blue}
        .box3{ background-color: green}
        .box4{ background-color: yellow}
        .box5{ background-color: orange}
        .box6{ background-color: cyan}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>

```

```

        <div class="box6">box6</div>
    </div>
</body>
</html>

```

ex:2

```

----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 90%;
            height: 500px;
            border:2px solid black;
            display: grid;
        }
        .box1{ background-color: red}
        .box2{ background-color: blue}
        .box3{ background-color: green}
        .box4{ background-color: yellow}
        .box5{ background-color: orange}
        .box6{ background-color: cyan}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>
</body>
</html>

```

ex:3

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 90%;
            height: 500px;
            border:2px solid black;
            display: grid;
            grid-template-rows: 150px 150px;
            grid-template-columns: 150px 150px 150px;
        }
        .box1{ background-color: red}
        .box2{ background-color: blue}
        .box3{ background-color: green}
        .box4{ background-color: yellow}
        .box5{ background-color: orange}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
    </div>
</body>
</html>

```



```

        .box6{ background-color: cyan}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>
</body>
</html>

```

ex:4

```

----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 90%;
            height: 500px;
            border:2px solid black;
            display: grid;
            grid-template-rows: 150px 150px;
            grid-template-columns: 150px 150px 1fr;
        }
        .box1{ background-color: red}
        .box2{ background-color: blue}
        .box3{ background-color: green}
        .box4{ background-color: yellow}
        .box5{ background-color: orange}
        .box6{ background-color: cyan}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>
</body>
</html>

```

ex:5

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {

```

```

        width: 90%;
        height: 500px;
        border: 2px solid black;
        display: grid;
        grid-template-rows: 150px 150px;
        grid-template-columns: 1fr 1fr 1fr;
    }
    .box1 { background-color: red; }
    .box2 { background-color: blue; }
    .box3 { background-color: green; }
    .box4 { background-color: yellow; }
    .box5 { background-color: orange; }
    .box6 { background-color: cyan; }
</style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>
</body>
</html>

```

ex:6

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        .container
        {
            width: 90%;
            height: 500px;
            border: 2px solid black;
            display: grid;
            grid-template-rows: repeat(2, 150px);
            grid-template-columns: repeat(3, 1fr);
        }
        .box1 { background-color: red; }
        .box2 { background-color: blue; }
        .box3 { background-color: green; }
        .box4 { background-color: yellow; }
        .box5 { background-color: orange; }
        .box6 { background-color: cyan; }
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>

```

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

ex:7

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .container
    {
      width: 90%;
      height: 500px;
      border:2px solid black;
      display: grid;
      grid-template-rows: repeat(2,150px);
      grid-template-columns: repeat(3,1fr);
      grid-row-gap: 10px;
      grid-column-gap: 10px;
    }
    .box1{ background-color: red}
    .box2{ background-color: blue}
    .box3{ background-color: green}
    .box4{ background-color: yellow}
    .box5{ background-color: orange}
    .box6{ background-color: cyan}
  </style>
</head>
<body>
  <div class="container">
    <div class="box1">box1</div>
    <div class="box2">box2</div>
    <div class="box3">box3</div>
    <div class="box4">box4</div>
    <div class="box5">box5</div>
    <div class="box6">box6</div>
  </div>
</body>
</html>
```

ex:8

```
-----
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
  <style type="text/css">
    .container
    {
      width: 90%;
      height: 500px;
      border:2px solid black;
      display: grid;
      grid-template-rows: repeat(2,150px);
      grid-template-columns: repeat(3,1fr);
      grid-gap: 20px;
    }
    .box1{ background-color: red}
    .box2{ background-color: blue}
```

```

        .box3{ background-color: green}
        .box4{ background-color: yellow}
        .box5{ background-color: orange}
        .box6{ background-color: cyan}
    </style>
</head>
<body>
    <div class="container">
        <div class="box1">box1</div>
        <div class="box2">box2</div>
        <div class="box3">box3</div>
        <div class="box4">box4</div>
        <div class="box5">box5</div>
        <div class="box6">box6</div>
    </div>
</body>
</html>

```

### HTML pattern attribute

=====

The pattern attribute specifies a regular expression that the <input> element's value is checked against on form submission.

Note: The pattern attribute works with the following input types: text, date, search, url, tel, email, and password.

ex:1

```

----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

</head>
<body>
    <form>
        Name: <input type="text" name="t1"
                pattern="[a-zA-Z]" required/> <br>

        <input type="submit" value="submit"/>

    </form>
</body>
</html>

```

ex:2

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

</head>
<body>
    <form>
        Name: <input type="text" name="t1"
                pattern="[a-zA-Z]"
                title="numbers not allowed" required/> <br>

        <input type="submit" value="submit"/>
    </form>

```

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

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
```

```
</head>
```

```
<body>
```

```
    <form>
```

```
        Name: <input type="text" name="t1"
                pattern="[a-zA-Z]{3}"
                title="enter exact three characters" required/> <br>
```

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

```
    </form>
```

```
</body>
```

```
</html>
```

ex:4

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
```

```
</head>
```

```
<body>
```

```
    <form>
```

```
        Name: <input type="text" name="t1"
                pattern="[a-zA-Z]{3,10}"
                title="enter exact three characters" required/> <br>
```

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

```
    </form>
```

```
</body>
```

```
</html>
```

ex:5

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
```

```
</head>
```

```
<body>
```

```
    <form>
```

```
        Phone: <input type="text" name="t1"
                   pattern="[0-9]{10}"
                   title="Enter 10 digits " required/> <br>
```

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

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

## **CSS cursor property**

=====

The cursor property specifies the mouse cursor to be displayed when pointing over an element.

ex:1

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        h1
        {
            text-align: center;
        }
        h1:hover
        {
            cursor: pointer;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
</body>
</html>
```

ex:2

----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        h1
        {
            text-align: center;
        }
        h1:hover
        {
            cursor: copy;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
</body>
</html>
```

ex:3

-----

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
```

```

        h1
        {
            text-align: center;
        }
        h1:hover
        {
            cursor: not-allowed;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
</body>
</html>

```

ex:4

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        h1
        {
            text-align: center;
        }
        h1:hover
        {
            cursor: zoom-in;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
</body>
</html>

```

ex:5

```

-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
    <style type="text/css">
        h1
        {
            text-align: center;
        }
        h1:hover
        {
            cursor: zoom-out;
        }
    </style>
</head>
<body>
    <h1>This is heading tag</h1>
</body>
</html>

```

## CSS FontAwesome Icons

Font Awesome gives you scalable vector icons that can instantly be customized.

To use fontawesome icons we need to add below <link> inside <head> tag.

ex:

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
```

ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add fontawesome cdn link -->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

</head>
<body>

    <i class="fa fa-heart"></i>
    <i class="fa fa-home"></i>
    <i class="fa fa-phone"></i>

</body>
</html>
```

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add fontawesome cdn link -->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

</head>
<body>

    <i class="fa fa-heart" style="color:red;font-size:40px;"></i>

    <i class="fa fa-home" style="color:blue;font-size:40px;"></i>

    <i class="fa fa-phone" style="color:green;font-size:40px;"></i>

</body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>

    <!-- add fontawesome cdn link -->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
```



```

</head>
<body>
    <i class="fa fa-facebook" style="color:blue;"></i>

    <i class="fa fa-instagram" style="color:pink;"></i>

    <i class="fa fa-whatsapp" style="color:green;"></i>

    <i class="fa fa-twitter" style="color:skyblue;"></i>

    <i class="fa fa-youtube" style="color:red;"></i>
</body>
</html>

```

## JavaScript

=====

### Q)What is the difference between Java and JavaScript?

Java	JavaScript
-----	-----
It is a non-scripting language.	It is a scripting language. (we don't need to compile the program)
We can run individually.	We can't run individually.
It does not required browser window for execution.	It requires browser window for execution.
It is a object oriented programming language.	It is a object based programming language.
It is a strongly typed checking language.	It is a loosely typed checking language.
It is complex language.	It is easy language compare to java.

## JavaScript

=====

Javascript is a weakly typed checking language.  
 The original name of javascript is LiveScript.  
 LiveScript was developed by Netscape Corporation in 1990's.  
 In 1995, The Brenden Eich popular scientist of Netscape corporation renamed LiveScript to JavaScript.  
 The official name of javascript is ECMA script.  
 Here ECMA means European Company Manufacturer Association.  
 Javascript is developed by using C language syntax's.

## Advantages of JavaScript

=====

It is used to developed interactive web pages.  
 It is used to perform client side form validations.  
 It is used to display dialog boxes and popup boxes.  
 It is used to create responsive(Dynamic) design.  
 It supports Drop-Down menu.  
 It supports objects like Arrays,Strings,RegEx and etc.  
 It supports Date and Time.  
 It supports Cookies.

syntax

```
=====
<script type="text/javascript" language="javascript">
    stmt1;
    stmt2;
    stmt3;
</script>
```

ex:1

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script type="text/javascript" language="javascript">
        document.write("Welcome to JavaScript class");
    </script>
</body>
</html>
```

Note:

-----  
Here "type" and "language" attributes are optional to declare.

Here declaration of semicolon is optional because javascript is a loosely typed checking language.

ex:2

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        document.write("Welcome to JavaScript class")
    </script>
</body>
</html>
```

ex:3

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        document.write("Welcome to JavaScript class");
        document.write("This is ihub talent management");
    </script>
</body>
</html>
```

To bring the space after each statement we need to use document.writeln() stmt.

ex:4

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
</head>
<body>
  <script>
    document.writeln("Welcome to JavaScript class");
    document.writeln("This is ihub talent management");
  </script>
</body>
</html>
```

To bring the new line we need to use <br> tag.

ex:5

-----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
</head>
<body>
  <script>
    document.writeln("Welcome to JavaScript class");
    <br>
    document.writeln("This is ihub talent management");
  </script>
</body>
</html>
```

### **Note:**

-----

We can't write markup language directly inside script language.

To use markup language inside script language we need to add below logic.

ex:6

----

```
<!DOCTYPE html>
<html>
<head>
  <title>MyPage!</title>
</head>
<body>
  <script>
    document.writeln("Welcome to JavaScript class");
    document.writeln("<br>");
    document.writeln("This is ihub talent management");
  </script>
</body>
</html>
```

It is possible to declare html tags and css properties inside script tag.

ex:7

```
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        document.writeln("<h1 style='color:blue'>Welcome to JavaScript class</h1>");
        document.writeln("<br>");
        document.writeln("<h1 style='color:red'>This is ihub talent management</h1>");
    </script>
</body>
</html>
```

Any language which contains HTML, CSS and Javascript is called DHTML (Dynamic Hypertext Markup Language).

### **Q)Types of Javascript ?**

We have two types of javascript.

- 1)Internal Javascript / Embedded Javascript
- 2)External Javascript / Seperate Javascript

#### **1)Internal Javascript**

-----  
In internal javascript , we will declare html code and javascript code in a single ".html" file.

Advantages:

- > We can understand html code and javascript code easily.
- > There is no confusion of multiple files.

Disadvantages:

- > If code is increases then it will increase complexcity of a programmer.

```
index.html
-----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        document.writeln("<h1 >Welcome to JavaScript class</h1>");
        document.writeln("<br>");
        document.writeln("<h1>This is ihub talent management</h1>");
    </script>
</body>
</html>
```

Note:

----

Internal javascript is recommanded for practicing level.

## 2)External Javascript

-----  
In external javascript, we can maintain HTML code in ".html" file and javascript code in ".js" file separately.

We can't execute .js file directly to the browser window.

Advantages:

- > We can maintain HTML code and Javascript code separately.
- > If code is increases then it will not increase complexcity of the programmer.

Disadvantages:

- > There is a confusion of multiple files.

Note:

----

External javascript is recommended for industry level.

## Javascript Engine

=====

Javascript engine is responsible to execute javascript code on browser window.

Javascript engine is used to convert user understandable scripting language to machine understandable scripting language.

By default, every browser contains javascript engine.

We have following list of javascript engines.

ex:

Browser	JavaScript Engine
-----	-----
Chrome	V8 Engine
firefox	spidermonkey
safari	javascriptcore
edge	chakra
and etc.	

## JavaScript comments

=====

Javascript comments are used for documentation purpose.

Using comments we can understand javascript code.

Javascript engine will not display the comments in output.

We have two types of javascript comments.

### 1)Single line comment

-----

It is used to comment a single line.

ex:

```
// code here
```

### 2)Multiple line comment

-----

It is used to comment a single line as well as multiple lines.

It is more convenient when compare to single line comment.

ex:

```
/*  
-  
- code here  
-  
*/
```

## Output statements in javascript

---

Output statements are used to display custom messages and output on browser window.

We have two types of output statements in javascript.

- 1)document.writeln()
- 2)console.log()

### 1)document.writeln()

---

It is used to display the output on browser window.

ex:

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        document.writeln("I love JavaScript");
    </script>
</body>
</html>
```

### 2)console.log()

---

It is used to display the output on browser console then we need to use console.log().

ex:

```
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        console.log("I love JavaScript");
    </script>
</body>
</html>
```

## Types of variables in javascript

---

A name which is given to a memory location is called variable.

Purpose of variable is used to store the data.

In javascript , a variable is also known as identifier.

We have same rules for javascript variables as we have for identifiers.

Rule1:

---

A javascript variable must and should starts with alphabet,underscore or dollar symbol.

ex:

```
_ =10;
$=20;
abcd=30;
```

Rule2:

-----

After first alphabet it can have any number of digits.

ex:

```
a1234; //valid
```

Rule3:

-----

Every identifier is a case sensitive.

ex:

```
a=10;  
A=10;
```

In javascript variables are divided into two types.

- 1)Local variable
- 2)Global variable

### 1)Local variable

-----

If we declare any variable inside a block or a function is called local variable.

We can access local variable within the block or function only.

ex:1

-----

```
<!DOCTYPE html>  
<html>  
<head>  
    <title>MyPage!</title>  
</head>  
<body>  
    <script>  
        function f1()  
        {  
            var i=10;  
            document.writeln(i);  
        }  
        //call the function  
        f1();  
    </script>  
</body>  
</html>
```

ex:2

----

```
<!DOCTYPE html>  
<html>  
<head>  
    <title>MyPage!</title>  
</head>  
<body>  
    <script>  
        function f1()  
        {  
            var i=10;  
            document.writeln(i);  
        }  
        function f2()  
        {  
            document.writeln(i);  
        }  
    </script>  
</body>  
</html>
```

```

        }
        //call the function
        f1();
        f2();
    </script>
</body>
</html>

```

## 2)Global variable

-----

If we declare any variable outside a block or a function is called global variable.

We can access global variable within the block or function or outside of the block or function.

ex:1

-----

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        var i=100;

        function f1()
        {
            document.writeln(i);
        }

        //call the function
        f1();
    </script>
</body>
</html>

```

ex:2

----

```

<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>
        var i=100;

        function f1()
        {
            document.writeln(i);
        }
        function f2()
        {
            document.writeln(i);
        }
        //call the function
        f1();
        f2();
    </script>
</body>
</html>

```



We can declare a global variable inside the function as well as outside of the function by using "window" object.

ex:1

```
----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>

        function f1()
        {
            window.i=200;
            document.writeln(i);
        }
        function f2()
        {
            document.writeln(i);
        }
        //call the function
        f1();
        f2();
    </script>
</body>
</html>
```

ex:2

```
----
<!DOCTYPE html>
<html>
<head>
    <title>MyPage!</title>
</head>
<body>
    <script>

        window.i=200;
        function f1()
        {
            window.i=200;
            document.writeln(i);
        }
        function f2()
        {
            document.writeln(i);
        }
        //call the function
        f1();
        f2();
    </script>
</body>
</html>
```







































CSS flexbox  
CSS gradients  
CSS Google Fonts

















































































