

## 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.
- The latest version of CSS3 was introduced in 2001.

### The main objective of CSS are :

- For positioning of an element.
- To apply styles on element to describe how an element should look like.
- To perform some sort of animations.

## CSS skeleton

```
<!DOCTYPE html>

<html>

    <head>

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

    </head>

    <body>

    </body>

</html>
```

ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style type="text/css">

            h1
            {
                color:red;
                text-align:center;
                font-size:80px;
            }

        </style>

    </head>

    <body>

        <h1> This is Heading Tag</h1>

    </body>

</html>
```

**Note:**

- Here style cascade from head to body.

**ex:2**

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style type="text/css">

            body

            {

                background-color:cyan;

            }

            h1

            {

                text-align:center;

                font-size:100px;

            }

        </style>

    </head>

    <body>

        <h1> This is Heading Tag</h1>

    </body>

</html>
```

## CSS syntax

- CSS rules set contains selector and declaration block.

ex:

|----- declaration block -----|  
h1{text-align:center;font-size:100px;}

|

selector

- A selector describes to which element we want to apply the styles.
- A declaration block contains CSS multiple properties separated with semicolon.
- Each CSS property contains property name and property value.

## Advantages of CSS

- It is easy to learn and easy to use.
- It saves lot of development time.
- It supported by all major browsers.
- It supports global change
- Flexibility

## Disadvantages of CSS

- Fragmentation
- Need to update all versions of CSS

Q) Types of CSS?

We have three types of CSS.

- 1) Inline CSS
- 2) Internal CSS / Embedded CSS

### 3) External CSS / Separate CSS

#### 1) Inline CSS

- Inline CSS is used to apply unique style only for single/one element.
- Using "style" attribute we can achieve inline CSS.

#### ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

    </head>

    <body>

        <h1 style="color:blue;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;background-color:yellow;">
    This is Heading Tag
</h1>

<p style="font-size:60px;text-align:center;">
    This is paragraph tag
</p>
</body>
</html>

```

## 2)Internal CSS

- Internal css is used to apply unique style for single web page.
- Using <style> tag we can achieve internal css.
- A <style> tag we need to declare inside <head> tag.

### ex:1

```

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

```

```
    }

</style>

</head>

<body>

    <h1> Heading tag1 </h1>

    <h1> Heading tag2 </h1>

    <h1> Heading tag3 </h1>

</body>

</html>
```

**ex:2**

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style type="text/css">

            p
            {
                font-size:90px;
                color:cyan;
            }

            h1
            {
                text-align:center;
                color:blue;
                background-color:yellow;
            }
        </style>
    </head>

    <body>

        <h1> Heading tag1 </h1>

        <h1> Heading tag2 </h1>

        <h1> Heading tag3 </h1>

    </body>

</html>
```

```
    }

</style>

</head>

<body>

    <p> Paragraph tag </p>

    <h1> Heading tag3 </h1>

</body>

</html>
```

### 3) External CSS

- External CSS is used to apply the unique styles on entire web pages.
- In external css we will create two files i.e .html file and .css file.
- Using `<link>` tag we can embed css file into html file.

ex:1

index.html

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <link rel="stylesheet" type="text/css" href="mystyles.css">

    </head>

    <body>

        <p> Paragraph tag </p>

        <h1> Heading tag3 </h1>

    </body>
```

```
</html>
```

## mystyles.css

```
p  
{  
    color:blue;  
    text-align:center;  
    font-size:90px;  
}  
  
h1  
{  
    color:red;  
    background-color:lightgray;  
}
```

### ex:1

#### index.html

```
<!DOCTYPE html>  
  
<html>  
    <head>  
        <title>MyPage!</title>  
        <link rel="stylesheet" type="text/css" href="mystyles.css">  
    </head>  
    <body>  
        <p> Paragraph tag </p>
```

```
<h1> Heading tag3 </h1>  
</body>  
</html>
```

## mystyles.css

```
body  
{  
    background-color: violet;  
}  
  
p  
{  
    color:blue;  
    text-align:center;  
    font-size:90px;  
}  
  
h1  
{  
    color:red;  
    background-color:lightgray;  
}
```

## CSS background property

- CSS background property is used to set the background in a web page.
- If we keep background in a body then it will reflect to entire web page.
- It is possible to set the background to any HTML element.

ex:

<h1> , <div> , <p> 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) background shorthand
  - 8) background-blend-mode
- and etc.

### 1) background-color

ex:1

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

```
{  
    background-color:cyan;  
}  
</style>  
</head>  
<body>  
    <h1>This is Heading tag </h1>  
</body>  
</html>
```

## ex:2

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

## 2) background-image

ex:1

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

ex:2

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

```
<style>
    h1
    {
        background-color:#FFFFFF;
        background-image: url("images/bg.jpeg");
    }
</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.jpeg");
                background-repeat:no-repeat;
            }
        </style>
    </head>
    <body>
        <h1>This is Heading tag </h1>
    </body>
</html>
```

```
    }

</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.jpeg");

                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.jpeg");
                background-repeat:repeat-y;

            }

        </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.jpeg");  
        background-repeat:no-repeat;  
        background-size:900px;  
    }  
</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.jpeg");  
                background-repeat:no-repeat;  
            }  
</style>
```

```
background-size:900px 900px;  
}  
</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.jpeg");  
                background-repeat:no-repeat;  
                background-size:cover;  
            }  
        </style>  
    </head>  
    <body>  
        <h1>This is Heading tag </h1>
```

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

## 5) background-position

ex:1

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

            }

        </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.jpeg");

        background-repeat:no-repeat;

        background-size:400px 400px;

        background-position: left 0px;

    }

</style>

</head>

<body>

    <h1>This is Heading tag </h1>

</body>

</html>
```

## 6) background-attachment

ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            body
```

```
{  
    background-color:#FFFFFF;  
    background-image: url("images/bg.jpeg");  
    background-repeat:no-repeat;  
    background-size:400px 400px;  
    background-position: left 0px;  
    background-attachment:scroll;  
}  
</style>  
</head>  
<body>  
    <h1>This is Heading tag </h1>  
    <h1>This is Heading tag </h1>
```

```
<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.jpeg");
                background-repeat:no-repeat;
                background-size:400px 400px;
                background-position: left 0px;
                background-attachment:fixed;
            }
        </style>
    </head>
```



## 7) background shorthand property

```
background-color:#FFFFFF;  
background-image: url("images/bg.jpeg");  
background-repeat:no-repeat;  
background-position: left 0px;  
background-attachment:fixed;
```

or

```
background : #FFFFFF url("images/bg.jpeg") no-repeat center 0px fixed;
```

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      body  
      {  
        background : #FFFFFF url("images/bg.jpeg") no-  
repeat center 100px fixed;  
        background-size: 400px;  
      }  
    </style>  
  </head>  
  <body>  
    <h1>This is Heading tag </h1>  
    <h1>This is Heading tag </h1>
```



## 8) background-blend-mode

ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            body

            {

                background-color:#FFFFFF, #FFFFFF;

                background-image:

url("images/bg.jpeg"),url("images/micky.png");

                background-repeat:no-repeat, no-repeat;

                background-size:cover , 400px;

                background-position: center 0px, left 60px;

                background-attachment:fixed , fixed;

                background-blend-mode: darken;

            }

        </style>

    </head>

    <body>

    </body>

</html>
```

ex:2

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            body

            {

                background-color:#FFFFFF, #FFFFFF;

                background-image:

url("images/bg.jpeg"),url("images/micky.png");

                background-repeat:no-repeat, no-repeat;

                background-size:cover , 400px;

                background-position: center 0px, left 60px;

                background-attachment:fixed , fixed;

                background-blend-mode: lighten;

            }

        </style>

    </head>

    <body>

    </body>

</html>
```

## CSS border property

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

### ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                border-style: solid;

                border-width: 4px;

                border-color: #FF0000;

            }

        </style>

    </head>

    <body>

        <h1> This is CSS class</h1>

    </body>

</html>
```

### ex:2

```
<!DOCTYPE html>

<html>
```

```
<head>

    <title>MyPage!</title>

    <style>

        h1

        {

            border: 2px solid #FF0000;

        }

    </style>

</head>

<body>

    <h1> This is CSS class</h1>

</body>

</html>
```

### ex:3

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                border: 2px dotted blue;

            }

        </style>

    </head>
```

```
<body>  
    <h1> This is CSS class</h1>  
</body>  
</html>
```

**ex:4**

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            h1  
            {  
                border: 2px dashed rgb(0,255,0);  
            }  
        </style>  
    </head>  
    <body>  
        <h1> This is CSS class</h1>  
    </body>  
</html>
```

**ex:5**

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

```

<style>

    h1
    {
        border: 2px double hsl(300, 100%, 50%);
    }

</style>

</head>
<body>

    <h1> This is CSS class</h1>

</body>

</html>

```

## CSS margin property

- CSS margin properties are used to 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

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

ex:1

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                border:2px solid black;

                margin-top:100px;

                margin-left:100px;

                margin-right:100px;

                margin-bottom:100px;

            }

        </style>

    </head>

    <body>

        <h1> This is CSS class</h1>

    </body>

</html>
```

ex:2

```
<!DOCTYPE html>

<html>

    <head>

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

```
<style>
    h1
    {
        border:2px solid black;
        margin-top:10%;
        margin-left:20%;
        margin-right:20%;
        margin-bottom:10%;
    }
</style>
</head>
<body>
    <h1> This is CSS class</h1>
</body>
</html>
```

### ex:3

```
<!DOCTYPE html>
<html>
    <head>
        <title>MyPage!</title>
        <style>
            div
            {
                border:2px solid blue;
            }
        </style>
    </head>
    <body>
        <h1>This is CSS Class</h1>
    </body>
</html>
```

```
        margin-top:100px;  
    }  
  
    h1  
    {  
        border:2px solid red;  
        margin-top:inherit;  
    }  
  
</style>  
  
</head>  
  
<body>  
  
    <div>  
        <h1> This is CSS class</h1>  
    </div>  
  
</body>  
  
</html>
```

If margin contains four values.

ex:

```
margin: 25px 50px 75px 100px;  
top , right , bottom , left
```

ex:

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

```
<style>

    h1
    {
        border:2px solid red;
        margin: 25px 50px 75px 100px;

    }
</style>

</head>

<body>
    <h1> This is CSS class</h1>
</body>
</html>
```

➤ If margin contains three values.

ex:

```
margin: 25px 50px 100px;
top , left and right, bottom
```

ex:

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

```
h1
{
    border:2px solid red;
    margin: 25px 50px 100px;

}
</style>

</head>
<body>
    <h1> This is CSS class</h1>
</body>
</html>
```

➤ If margin contains two values.

ex:

```
margin: 50px 100px;
top and bottom , left and right
```

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
        <title>MyPage!</title>
        <style>
```

```
h1
```

```
{
```

```
border:2px solid red;  
margin: 50px 100px;  
  
}  
</style>  
</head>  
<body>  
    <h1> This is CSS class</h1>  
</body>  
</html>
```

➤ If margin contains one value.

ex:

```
margin: 100px;  
all sides are 100px.
```

ex:

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
  
h1  
{  
    border:2px solid red;  
    margin: 100px;
```

```
        }  
  
    </style>  
  
  </head>  
  
  <body>  
    <h1> This is CSS class</h1>  
  
  </body>  
  
</html>
```

### CSS padding property

- 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-right:100px;
        padding-bottom:100px;
        padding-left:100px;
    }

</style>
```

```
</head>
```

```
<body>
```

```
    <h1> This is CSS class</h1>
```

```
</body>
```

```
</html>
```

**ex:2**

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

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

```
        <style>
```

```
            h1
```

```
{  
    border:2px solid black;  
    padding-top:10%;  
    padding-right:20%;  
    padding-bottom:10%;  
    padding-left:20%;  
  
}  
</style>  
</head>  
<body>  
    <h1> This is CSS class</h1>  
</body>  
</html>
```

### ex:3

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            div  
            {  
                border:2px solid blue;  
                padding-top:50px;  
            }  
        </style>  
    </head>  
    <body>  
        <h1> MyPage!</h1>  
    </body>  
</html>
```

```
h1
{
    border:2px solid black;
    padding-top:inherit;
}

</style>

</head>

<body>

    <div>
        <h1> This is CSS class</h1>
    </div>
</body>

</html>
```

➤ If padding contains four values.

ex:

padding : 25px 100px 75px 100px;  
top , right, bottom , left

ex:

```
<!DOCTYPE html>

<html>

    <head>
        <title>MyPage!</title>
        <style>
```

h1

```
{  
    border:2px solid black;  
    padding : 25px 100px 75px 100px;  
}  
</style>  
</head>  
<body>  
  
<h1> This is CSS class</h1>  
  
</body>  
</html>
```

➤ If padding contains three values.

ex:

```
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 CSS class</h1>  
</body>  
</html>
```

➤ If padding contains two values.

ex:

```
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 CSS class</h1>

</body>

</html>
```

➤ If padding contains one value.

ex:

**padding :100px;**

All sides are same.

ex:

<!DOCTYPE html>

<html>

<head>

<title>MyPage!</title>

<style>

**h1**

{

**border:2px solid black;**

**padding :100px;**

}

```
</style>

</head>

<body>

<h1> This is CSS class</h1>

</body>

</html>
```

## CSS height and width property

- 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>

            h1
            {
                border:2px solid black;
            }
        </style>
    </head>
    <body>
        <h1>Hello World</h1>
    </body>
</html>
```

```
        width:300px;  
    }  
  
  </style>  
  </head>  
  <body>  
  
    <h1> This is CSS class</h1>  
  
  </body>  
  </html>
```

**ex:2**

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      img  
      {  
        width: 400px;  
        height:400px;  
      }  
  
    </style>  
  </head>  
  <body>
```

```


</body>
</html>
```

**ex:3**

```
<!DOCTYPE html>
<html>
  <head>
    <title>MyPage!</title>
    <style>
      img {
        min-width:100px;
        max-width: 400px;
        min-height:100px;
        max-height:400px;
      }
    </style>
  </head>
  <body>
    
  </body>
</html>
```

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

## CSS text property

### i) color

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      h1  
      {  
        color:#FF0000;  
      }  
    </style>  
  </head>  
  <body>  
    <h1> Heading Tag </h1>  
  
  </body>  
</html>
```

## ii) background-color

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>

</html>
```

### iii) text-align

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

        </body>

    </html>


```

ex:

```
<!DOCTYPE html>

<html>

    <head>
```

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

<style>

    h1

    {

        color:#FF0000;

        background-color:#FFFF00;

        text-align:right;

    }

</style>

</head>

<body>
```

<h1> Heading Tag </h1>

```
</body>

</html>
```

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

            }

        </style>
```

```
background-color:#FFFF00;  
text-align:left;  
}  
</style>  
</head>  
<body>  
  
<h1> Heading Tag </h1>  
  
</body>  
</html>
```

#### iv) text-decoration

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      h1  
      {  
        color:#FF0000;  
        background-color:#FFFF00;  
        text-align:center;  
        text-decoration:none;  
      }  
    </style>
```

```
</head>  
<body>  
    <h1> Heading Tag </h1>  
</body>  
</html>
```

ex:

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            h1  
            {  
                color:#FF0000;  
                background-color:#FFFF00;  
                text-align:center;  
                text-decoration:underline;  
            }  
        </style>  
    </head>  
    <body>  
        <h1> Heading Tag </h1>  
    </body>
```

```
</html>
```

## v) text-transform

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

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

```
        <style>
```

```
            h1
```

```
            {
```

```
                color:#FF0000;
```

```
                background-color:#FFFF00;
```

```
                text-align:center;
```

```
                text-decoration:underline;
```

```
                text-transform:uppercase;
```

```
            }
```

```
        </style>
```

```
    </head>
```

```
    <body>
```

```
        <h1> Heading Tag </h1>
```

```
    </body>
```

```
</html>
```

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

                text-decoration:underline;

                text-transform:lowercase;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>

</html>
```

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

                text-decoration:underline;

                text-transform:capitalize;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>

</html>
```

## vi) letter-spacing

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

                text-decoration:underline;

                text-transform:capitalize;

                letter-spacing:4px;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>

</html>
```

## vii) font-size

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

                text-decoration:underline;

                text-transform:capitalize;

                letter-spacing:4px;

                font-size:60px;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>

</html>
```

## viii) font-family

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1

            {

                color:#FF0000;

                background-color:#FFFF00;

                text-align:center;

                text-decoration:underline;

                text-transform:capitalize;

                letter-spacing:4px;

                font-size:60px;

                font-family:monospace;

            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>

    </body>
```

```
</html>
```

**ex:2**

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            h1
            {
                color:#FF0000;
                background-color:#FFFF00;
                text-align:center;
                text-decoration:underline;
                text-transform:capitalize;
                letter-spacing:4px;
                font-size:60px;
                font-family:cursive;
            }

        </style>

    </head>

    <body>

        <h1> Heading Tag </h1>
```

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

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      h1  
      {  
        color:#FF0000;  
        background-color:#FFFF00;  
        text-align:center;  
        text-decoration:underline;  
        text-transform:capitalize;  
        letter-spacing:4px;  
        font-size:60px;  
        font-family:arial;  
      }  
    </style>  
  </head>  
  <body>
```

<h1> Heading Tag </h1>

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

## IX) font-weight

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

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

```
    <style>
```

```
      p
```

```
      {
```

```
        font-size:60px;
```

```
        font-family:serif;
```

```
        font-weight:bold;
```

```
      }
```

```
    </style>
```

```
  </head>
```

```
  <body>
```

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

```
  </body>
```

```
</html>
```

## 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 default value.
hidden	The overflow is clipped and 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>MyPage!</title>

    <style>

      div

      {
```

```
width:300px;  
height:300px;  
border:2px solid black;  
overflow:visible;  
}  
</style>  
</head>  
<body>  
<div>  
<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).  
</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).</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).</p>  
</div>  
</body>  
</html>
```

## overflow: hidden

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            div

            {

                width:300px;

                height:300px;

                border:2px solid black;

                overflow:hidden;

            }

        </style>

    </head>

    <body>    <div>        <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).</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).**

**</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).**

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

### **overflow:scroll**

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            div

            {

                width:300px;

                height:300px;

                border:2px solid black;

                overflow:scroll;

            }

        </style>

    </head>

    <body>

<div><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).</p>
```

**<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).</p>**

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

### **overflow: auto**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>MyPage!</title>**

**<style>**

**div**

**{**

**width:300px;**

**height:300px;**

**border:2px solid black;**

**overflow:auto;**

**}**

**</style>**

**</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).</p><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).**

</p> </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.

**ex:**

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            div

            {

                width:300px;

                height:300px;

                border:4px solid black;

                margin: 100px auto;

                border-radius: 5px;

                /* all side 5 px */

            }

        </style>
```

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

ex:

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            div  
            {  
                width:300px;  
                height:300px;  
                border:4px solid black;  
                margin: 100px auto;  
                /* top left and bottom right , top right and bottom  
                left */  
                border-radius: 5px 10px;  
            }  
        </style>  
    </head>  
    <body>
```

```
<div>
```

```
</div>
```

```
</body>
```

```
</html>
```

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
    <style>
```

```
        div
```

```
    {
```

```
        width:300px;
```

```
        height:300px;
```

```
        border:4px solid black;
```

```
        margin: 100px auto;
```

```
        /* top left , top right and bottom left, bottom right
```

```
    */
```

```
        border-radius: 5px 10px 15px;
```

```
    }
```

```
    </style>
```

```
</head>
```

```
<body>

    <div>

    </div>

</body>

</html>
```

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            div

            {

                width:300px;

                height:300px;

                border:4px solid black;

                margin: 100px auto;

                /* top left , top right ,bottom left, bottom right */

                border-radius: 5px 10px 15px 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;
```

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            div

            {

                width:300px;
```

```
height:300px;  
background-color:red;  
margin: 100px auto;  
border-radius:5px;  
box-shadow:2px 2px 14px 7px #FFFF00;  
}  
</style>  
</head>  
<body>  
  
<div>  
  
</div>  
  
</body>  
</html>  
  
ex:  
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      div  
      {  
        width:300px;
```

```

        height:300px;
        background-color:red;
        margin: 100px auto;
        border-radius:5px;
        box-shadow:2px 2px 14px 7px #FFFF00 inset;
    }

</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>MyPage!</title>

    <style>

        .box1

        {

            width:200px;

            height:200px;

            background-color:red;

            float:none;

        }

        .box2

        {

            width:200px;

            height:200px;

            background-color:blue;

            float:none;

        }

    </style>

</head>

<body>
```

```
<div class="box1"></div>  
<div class="box2"></div>  
  
</body>  
</html>
```

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      .box1  
      {  
        width:200px;  
        height:200px;  
        background-color:red;  
        float:left;  
      }  
      .box2  
      {  
        width:200px;  
        height:200px;  
        background-color:blue;  
        float:right;  
      }
```

```
</style>

</head>

<body>

    <div class="box1"></div>

    <div class="box2"></div>

</body>

</html>
```

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>MyPage!</title>

        <style>

            .box1

            {

                width:200px;

                height:200px;

                background-color:red;

                float:left;

            }

            .box2

            {

                width:200px;
```

```
height:200px;  
background-color:blue;  
float:left;  
}  
</style>  
</head>  
<body>  
  
<div class="box1"></div>  
<div class="box2"></div>  
  
</body>  
</html>
```

### CSS clear property

- The clear property controls the flow next to floated elements.

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      .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:green;  
}  
</style>  
</head>  
<body>
```

```
<div class="box1"></div>  
<div class="box2"></div>  
<div class="box3"></div>
```

```
</body>
```

```
</html>
```

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

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

```
        <style>
```

```
            .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:green;  
clear:both;  
}  
</style>  
</head>  
<body>  
  
<div class="box1"></div>  
<div class="box2"></div>  
<div class="box3"></div>  
  
</body>  
</html>
```

ex:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      .box1  
      {  
        width:200px;  
        height:400px;  
        background-color:red;
```

```
        float:left;  
    }  
  
.box2  
{  
    width:200px;  
    height:200px;  
    background-color:blue;  
    float:right;  
}  
  
.box3  
{  
    width:100%;  
    height:200px;  
    background-color:green;  
    clear:left;  
}  
  
</style>  
</head>  
<body>  
  
<div class="box1"></div>  
<div class="box2"></div>  
<div class="box3"></div>  
  
</body>
```

```
</html>
```

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

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

```
        <style>
```

```
            .box1
```

```
        {
```

```
            width:200px;
```

```
            height:400px;
```

```
            background-color:red;
```

```
            float:left;
```

```
        }
```

```
            .box2
```

```
        {
```

```
            width:200px;
```

```
            height:200px;
```

```
            background-color:blue;
```

```
            float:right;
```

```
        }
```

```
            .box3
```

```
        {
```

```
            width:100%;
```

```
            height:200px;
```

```
background-color:green;  
clear:right;  
}  
</style>  
</head>  
<body>  
  
<div class="box1"></div>  
<div class="box2"></div>  
<div class="box3"></div>  
  
</body>  
</html>
```

## CSS Design

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>MyPage!</title>  
    <style>  
      .container  
      {  
        width:800px;  
        height:400px;  
        background-color:tomato;
```

```
margin:90px auto;  
}  
  
.container .box1  
{  
width:400px;  
height:400px;  
background-color:yellow;  
float:left;  
}  
  
.container .box1 img  
{  
width:100%;  
height:100%;  
}  
  
.container .box2  
{  
width:400px;  
height:400px;  
background-color:cyan;  
float:left;  
}  
  
.container .box2 h1  
{  
text-align:center;  
letter-spacing:2px;
```

```
        font-family:cursive;  
    }  
  
.container .box2 p  
{  
    padding:10px;  
    text-align:justify;  
}  
  
</style>  
  
</head>  
  
<body>  
  
  


  
  


# Micky Mouse


```

**Mickey Mouse is an American cartoon character co-created in 1928 by Walt Disney and Ub Iwerks. The longtime mascot of The Walt Disney Company, Mickey is an anthropomorphic mouse who typically wears red shorts, large yellow shoes, and white gloves.**

<p>

**Mickey Mouse is an American cartoon character co-created in 1928 by Walt Disney and Ub Iwerks. The longtime mascot of The Walt Disney**

**Company, Mickey is an anthropomorphic mouse who typically wears red shorts, large yellow shoes, and white gloves.**

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

**ex:2**

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>MyPage!</title>  
        <style>  
            .container  
            {  
                width:800px;  
                height:400px;  
                /*background-color:tomato;*/  
                margin:90px auto;  
            }  
            .container .box1  
            {  
                width:400px;  
                height:400px;  
                /*background-color:yellow;*/  
                float:left;  
            }  
        </style>  
    </head>  
    <body>  
        <div class="container">  
            <div class="box1"></div>  
        </div>  
    </body>  
</html>
```

```
.container .box1 img  
{  
    width:80%;  
    height:80%;  
  
}  
.container .box2  
{  
    width:400px;  
    height:400px;  
    /*background-color:cyan;*/  
    float:left;  
}  
.container .box2 h1  
{  
    text-align:center;  
    letter-spacing:2px;  
    font-family:cursive;  
}  
.container .box2 p  
{  
    padding:10px;  
    text-align:justify;  
}  
</style>
```

```
</head>

<body>

    <div class="container">
        <div class="box1">
            
        </div>
        <div class="box2">
            <h1>Micky Mouse</h1>
            <p>
                Mickey Mouse is an American cartoon character co-created in 1928 by Walt Disney and Ub Iwerks. The longtime mascot of The Walt Disney Company, Mickey is an anthropomorphic mouse who typically wears red shorts, large yellow shoes, and white gloves.</p>
        </div>
    </div>
</body>
```

Mickey Mouse is an American cartoon character co-created in 1928 by Walt Disney and Ub Iwerks. The longtime mascot of The Walt Disney Company, Mickey is an anthropomorphic mouse who typically wears red shorts, large yellow shoes, and white gloves.

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

## Types of Selectors in CSS

We have five types of 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>IHUB</title>

        <style>

            h1
            {
                text-align:center;
                color:blue;
                font-size:50px;
            }
        </style>

    </head>

    <body>

        <h1>This is heading tag </h1>

    </body>

</html>
```

ex:

```
<!DOCTYPE html>
```

```

<html>

    <head>

        <title>IHUB</title>

        <style>

            h1
            {
                text-align:center;
                color:blue;
                font-size:50px;
            }
        </style>

    </head>

    <body>

        <h1>This is heading tag </h1>
        <h1>This is heading tag </h1>

    </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>IHUB</title>

        <style>

            #myId1
            {
                text-align:center;
                color:blue;
                font-size:50px;
            }

            #myId2
            {
                text-align:center;
                color:red;
                font-size:50px;
            }

        </style>

    </head>

    <body>

        <h1 id="myId1">This is heading tag </h1>
        <h1 id="myId2">This is heading tag </h1>

    </body>

</html>

ex:

<!DOCTYPE html>
```

```
<html>

    <head>

        <title>IHUB</title>

        <style>

            #myId1
            {
                text-align:center;
                font-size:50px;
            }

            #myId2
            {
                color:red;
            }

        </style>

    </head>

    <body>

        <h1 id="myId1">This is heading tag </h1>
        <h1 id="myId2">This is heading tag </h1>
        <h1 id="myId1 myId2">This is heading tag </h1>

    </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>IHUB</title>

        <style>

            .myClass1

            {

                text-align:center;

                font-size:50px;

            }

            .myClass2

            {

                color:red;

            }

        </style>

    </head>

    <body>

        <h1 class="myClass1">This is heading tag </h1>

        <h1 class="myClass2">This is heading tag </h1>

    </body>

</html>
```

ex:

```

<!DOCTYPE html>
<html>
    <head>
        <title>IHUB</title>
        <style>
            .myClass1
            {
                text-align:center;
                font-size:50px;
            }
            .myClass2
            {
                color:red;
            }
        </style>
    </head>
    <body>
        <h1 class="myClass1">This is heading tag </h1>
        <h1 class="myClass2">This is heading tag </h1>
        <h1 class="myClass1 myClass2">This is heading tag </h1>
    </body>
</html>

```

#### 4)group selector

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

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB</title>

        <style>

            h1,p,div

            {

                color:blue;

                text-align:center;

                background-color:yellow;

            }

        </style>

    </head>

    <body>

        <h1>This is heading tag</h1>

        <p>This is paragraph tag</p>

        <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>IHUB</title>

        <style>

            *

            {

                color:blue;

                text-align:center;

                background-color:yellow;

            }

        </style>

    </head>

    <body>

        <h1>This is heading tag</h1>

        <p>This is paragraph tag</p>

        <div>This is division tag</div>

    </body>

</html>
```

## CSS table

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

ex:

```
<!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>
```

## CSS display property

- The display property specifies the display behaviour of an element.

### syntax

**display: value;**

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

### display:none

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

ex:

```
<!DOCTYPE html>  
  
<html>  
  
    <head>  
  
        <title>IHUB TALENT</title>  
  
        <style>  
  
            span  
            {  
                display:block;  
            }  
        </style>  
    </head>  
    <body>  
        <h1>I HUB TALENT</h1>  
        <p>I HUB TALENT</p>  
    </body>  
</html>
```

```
    }

</style>

</head>

<body>

    <span>This is span 1</span>

    <span>This is span 2</span>

    <span>This is span 3</span>

</body>

</html>
```

**ex:**

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            span

            {

                display:block;

                border:2px solid black;

                width:50%;

            }

        </style>

    </head>

    <body>

        <span>This is span 1</span>
```

```
<span>This is span 2</span>  
<span>This is span 3</span>  
</body>  
</html>
```

### display:inline

#### ex:1

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>IHUB TALENT</title>  
    <style>  
      div  
      {  
        display:inline;  
      }  
    </style>  
  </head>  
  <body>  
    <div>This is div 1</div>  
    <div>This is div 2</div>  
    <div>This is div 3</div>  
  </body>  
</html>
```

#### ex:2

```
<!DOCTYPE html>
```

```
<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            div

            {

                display:inline;

                border:2px solid black;

                width:50%;

            }

        </style>

    </head>

    <body>

        <div>This is div 1</div>

        <div>This is div 2</div>

        <div>This is div 3</div>

    </body>

</html>
```

### display: inline-block

ex:

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>
```

```


### 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:



```

<!DOCTYPE html>

<html>

<head>

```



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```

```
<title>IHUB TALENT</title>

<style>
    div {
        width:300px;
        height:300px;
        background-color:red;
        padding:10px;
        border:2px solid black;
        box-sizing:content-box;
    }
</style>

</head>
<body>

    <div>

    </div>

</body>
</html>
```

## box-sizing:border-box

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

ex:

```
<!DOCTYPE html>
<html>
  <head>
    <title>IHUB TALENT</title>
    <style>
      div
      {
        width:300px;
        height:300px;
        background-color:red;
        padding:10px;
        border:2px solid black;
        box-sizing:border-box;
      }
    </style>
  </head>
  <body>
    <div>
    </div>
```

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

## CSS Design

### Task2

```
|  
|-----css  
| |  
|---mystyles.css  
  
|-----index.html
```

## index.html

```
<!DOCTYPE html>  
  
<html>  
  <head>  
    <title>MyPage!</title>  
    <link rel="stylesheet" href="css/mystyles.css">  
  </head>  
  <body>  
    <header class="header">  
      <h3>I<span>HUB</span>TALENT</h3>  
      <nav>  
        <a href="">Home</a>  
        <a href="">About</a>  
        <a href="">Service</a>
```

```
        <a href="">Portfolio</a>
        <a href="">Contact</a>
    </nav>
</header>
</body>
</html>
```

### *mystyles.css*

```
* {
}
.header {
    width:100%;
    height:30px;
    background-color:#F79F1F;
}
h3 {
    float:left;
    line-height:30px;
    padding-left:10px;
}
span
```

```
{  
    font-style:italic;  
    color:#FFFFFF;  
}  
  
nav  
{  
    float:right;  
    line-height:30px;  
}  
  
nav a  
{  
    text-decoration:none;  
    font-size:12px;  
    text-transform:uppercase;  
    display:inline-block;  
    width:100px;  
    color:#FFFFFF;  
}  
  
nav a:hover  
{  
    color:#000000;  
}
```

## 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>IHUB TALENT</title>
    <style>
      div
      {
        width:300px;
        height:200px;
        border:2px solid black;
      }
    </style>
  </head>
  <body>
    <div></div>
  </body>
</html>
```

```
        transform: translate(400px,200px);  
    }  
</style>  
  
</head>  
<body>  
  
<div>  
    HTML is widely used language on web to develop web  
    pages and web applications  
</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>IHUB TALENT</title>  
        <style>  
            div  
            {
```

```
width:300px;  
height:200px;  
border:2px solid black;  
margin:100px auto;  
transform: rotate(30deg);  
}  
</style>  
  
</head>  
<body>  
    <div>  
        HTML is widely used language on web to develop web  
        pages and web applications  
    </div>
```

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

## ex:2

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>IHUB TALENT</title>  
        <style>  
            div  
            {
```

```

width:300px;
height:200px;
border:2px solid black;
margin:100px auto;
transform: rotate(-30deg);

}

</style>

</head>

<body>

<div>

    HTML is widely used language on web to develop web
    pages and web applications

</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.

ex:

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

```
<head>

    <title>IHUB TALENT</title>

    <style>

        div

        {

            width:300px;

            height:200px;

            border:2px solid black;

            margin:100px auto;

            transform:scaleX(2);

        }

    </style>

</head>

<body>

    <div>

        HTML is widely used language on web to develop web
        pages and web applications

    </div>

</body>

</html>
```

## transform: scaleY()

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

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>IHUB TALENT</title>
```

```
    <style>
```

```
      div
```

```
    {
```

```
      width:300px;
```

```
      height:200px;
```

```
      border:2px solid black;
```

```
      margin:100px auto;
```

```
      transform:scaleY(2);
```

```
    }
```

```
  </style>
```

```
</head>
```

```
<body>
```

```
  <div>
```

HTML is widely used language on web to develop web pages and web applications

```
</div>

</body>

</html>
```

### transform : scale()

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

ex:

```
<!DOCTYPE html>

<html>

<head>

    <title>IHUB TALENT</title>

    <style>

        div

        {

            width:300px;

            height:200px;

            border:2px solid black;

            margin:100px auto;

            transform:scale(2);

        }

    </style>

</head>

<body>
```

```
<div>  
    HTML is widely used language on web to develop web  
    pages and web applications
```

```
</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>IHUB TALENT</title>  
        <style>  
            div  
            {  
                width:300px;  
                height:200px;  
                border:2px solid black;  
                margin:100px auto;  
                transform:skewX(30deg);  
            }  
        </style>  
    </head>  
    <body>  
        <div></div>  
    </body>  
</html>
```

```
</style>

</head>

<body>

<div>
    HTML is widely used language on web to develop web
    pages and web applications
</div>

</body>
</html>
```

### transform: skewY()

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

ex:

```
<!DOCTYPE html>

<html>

    <head>
        <title>IHUB TALENT</title>
        <style>
            div
            {
                width:300px;
                height:200px;
                border:2px solid black;
            }
        </style>
    </head>
    <body>
        <div></div>
    </body>
</html>
```

```
margin:100px auto;  
transform:skewY(30deg);  
}  
</style>  
  
</head>  
  
<body>  
  
    <div>  
        HTML is widely used language on web to develop web  
        pages and web applications  
    </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>IHUB TALENT</title>  
        <style>  
            div
```

```

    {
        width:300px;
        height:200px;
        border:2px solid black;
        margin:100px auto;
        transform:skew(30deg);
    }
</style>

</head>
<body>

<div>
    HTML is widely used language on web to develop web  
pages and web applications
</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>IHUB TALENT</title>

        <style>

            div

            {

                width:200px;

                height:200px;

                background-color:red;

                transition-property: width,height;

            }

            div:hover

            {

                width:400px;

            }

        </style>

    </head>

    <body>

        <div></div>

    </body>

</html>
```

```
height:400px;  
}  
</style>  
  
</head>  
  
<body>  
  
<div></div>  
  
</body>  
</html>
```

ex:2

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>IHUB TALENT</title>  
    <style>  
      div  
      {  
        width:200px;  
        height:200px;  
        background-color:red;
```

```
        transition-property: all;  
    }  
  
    div:hover  
    {  
        width:400px;  
        height:400px;  
    }  
  
</style>  
  
</head>  
  
<body>  
  
    <div></div>  
  
</body>  
</html>
```

### transition-duration

ex:

```
<!DOCTYPE html>  
  
<html>  
  
    <head>  
  
        <title>IHUB TALENT</title>  
  
        <style>  
            div  
            {
```

```
width:200px;  
height:200px;  
background-color:red;  
transition-property: all;  
transition-duration:2s;  
}  
  
div:hover  
{  
width:400px;  
height:400px;  
}  
  
</style>  
  
</head>  
  
<body>  
  
<div></div>  
  
</body>  
</html>
```

### transition-timing-function

#### ex:1

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

```
<title>IHUB TALENT</title>

<style>

    div

    {

        width:200px;

        height:200px;

        background-color:red;

        transition-property: all;

        transition-duration:2s;

        transition-timing-function:linear;

    }

    div:hover

    {

        width:400px;

        height:400px;

    }

</style>

</head>

<body>

    <div></div>

</body>

</html>
```

**ex:2**

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            div

            {

                width:200px;

                height:200px;

                background-color:red;

                transition-property: all;

                transition-duration:2s;

                transition-timing-function:ease-in;

            }

            div:hover

            {

                width:400px;

                height:400px;

            }

        </style>

    </head>

    <body>
```

```
<div></div>

</body>

</html>

ex:3

<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            div

            {

                width:200px;

                height:200px;

                background-color:red;

                transition-property: all;

                transition-duration:2s;

                transition-timing-function:ease-out;

            }

            div:hover

            {

                width:400px;

                height:400px;

            }

        </style>
```

```
</head>

<body>

<div></div>

</body>

</html>
```

**ex:4**

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            div

            {

                width:200px;

                height:200px;

                background-color:red;

                transition-property: all;

                transition-duration:2s;

                transition-timing-function:ease-in-out;

            }

            div:hover

            {
```

```
        width:400px;  
        height:400px;  
    }  
</style>  
  
</head>  
  
<body>  
  
    <div></div>  
  
</body>  
</html>
```

### transition-delay

```
<!DOCTYPE html>  
  
<html>  
  
    <head>  
  
        <title>IHUB TALENT</title>  
  
        <style>  
  
            div  
            {  
                width:200px;  
                height:200px;  
                background-color:red;  
                transition-property: all;  
                transition-duration:2s;
```

```
        transition-timing-function:ease-in-out;  
        transition-delay:4s;  
    }  
  
    div:hover  
    {  
        width:400px;  
        height:400px;  
    }  
  
</style>  
  
</head>  
  
<body>  
  
    <div></div>  
  
</body>  
</html>
```

or

### shorthand

ex:

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

```
div
{
    width:200px;
    height:200px;
    background-color:red;
    transition:all 2s linear 5s;
}

div:hover
{
    width:400px;
    height:400px;
}

</style>

</head>
<body>

<div></div>

</body>
</html>
```

## CSS Design 1

ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title>IHUB TALENT</title>
```

```
        <style>
```

```
            img
```

```
            {
```

```
                margin: 100px 450px;
```

```
                transition:2s all linear;
```

```
            }
```

```
            img:hover
```

```
            {
```

```
                transform:rotate(360deg);
```

```
            }
```

```
        </style>
```

```
    </head>
```

```
    <body>
```

```
        
```

```
    </body>
```

```
</html>
```

## CSS Design 2

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title>IHUB TALENT</title>
```

```
        <style>
```

```
            img
```

```
            {
```

```
                margin: 100px 55px;
```

```
                filter:grayscale(100%);
```

```
                transition:1s all ease-in;
```

```
            }
```

```
            img:hover
```

```
            {
```

```
                filter:grayscale(0%);
```

```
                transform: scale(1.2);
```

```
            }
```

```
        </style>
```

```
    </head>
```

```
    <body>
```

```
        
```

```
        
```

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

## 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:absolute

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            img

            {

                width:200px;

                height:200px;

                position:absolute;

                top:100px;

                left:50px;

            }

        </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). 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).</p>**

<p>

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</body>

</html>

## position:relative

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            img

            {

                width:200px;

                height:200px;

                position:relative;

                left:100px;

                top:50px;

            }

        </style>

    </head>

    <body>

        <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 manageweb content using hypertextmarkup language (HTML).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 manageweb content using hypertextmarkup language (HTML).</p>

    </body>


```

</p>



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</body>

</html>

## position:fixed

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            img

            {

                width:200px;

                height:200px;

                position:fixed;

                left:0;

                top:0;

            }

        </style>

    </head>

    <body>

        <p>
```

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</p>

</body>

</html>

**position:sticky**

<!DOCTYPE html>

<html>

<head>

<title>IHUB TALENT</title>

<style>

img

{

width:200px;

height:200px;

```
position:sticky;  
left:0;  
top:0;  
}  
</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 hypertextmarkup language (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 hypertextmarkup language (HTML).</p>**

```
<p>
```

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

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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 hypertextmarkup language (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:**

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            img

            {

                width:200px;

                height:200px;

                position:absolute;

                left:0;
```

```
    top:0;  
    z-index:-1;  
}  
</style>
```

```
</head>
```

```
<body>
```

```
<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 hypertextmarkup language (HTML).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 hypertextmarkup language (HTML).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 hypertextmarkup language (HTML).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 hypertextmarkup language (HTML).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 hypertextmarkup language (HTML).**

```
</p><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 hypertextmarkup language (HTML).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 hypertextmarkup language (HTML).Web**

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```
</p>
```

```
 </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>IHUB TALENT</title>
    <style>
      div
      {
        width:300px;
        height:300px;
        background-color:red;
      }
    </style>
  </head>
  <body>
    <div>
      <h1>I HUB TALENT</h1>
    </div>
  </body>
</html>
```

```
        opacity:1;  
    }  
  
    </style>  
  
</head>  
  
<body>  
  
    <div></div>  
  
</body>  
</html>  
  
ex:2  
  
<!DOCTYPE html>  
  
<html>  
  
    <head>  
  
        <title>IHUB TALENT</title>  
  
        <style>  
  
            div  
            {  
                width:300px;  
                height:300px;  
                background-color:red;  
                opacity:.5;  
            }  
  
        </style>
```

```
</head>

<body>

<div></div>

</body>

</html>
```

ex:3

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            div

            {

                width:300px;

                height:300px;

                background-color:red;

                opacity:.1;

            }

        </style>

    </head>

    <body>
```

```
<div></div>
```

```
</body>
```

```
</html>
```

## Sublime Editor

- Download link : <https://www.sublimetext.com/3>

## CSS flexbox

- Flexbox is a one-dimensional layout methods 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>IHUB TALENT</title>

        <style>

            .container

            {

                width:100%;

                height:400px;

                border:2px solid black;

            }

            .container .item
```

```
{  
    width:150px;  
    height:150px;  
    background-color:red;  
    box-sizing:border-box;  
    border:2px solid black;  
}  
</style>  
  
</head>  
<body>  
  
    <div class="container">  
        <div class="item">Item1</div>  
        <div class="item">Item2</div>  
        <div class="item">Item3</div>  
        <div class="item">Item4</div>  
        <div class="item">Item5</div>  
        <div class="item">Item6</div>  
    </div>  
  
</body>  
</html>
```

ex:2

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            .container
            {
                width:100%;
                height:400px;
                border:2px solid black;
                display:flex;
            }

            .container .item
            {
                width:150px;
                height:150px;
                background-color:red;
                box-sizing:border-box;
                border:2px solid black;
            }
        </style>

    </head>
```

```
<body>

    <div class="container">

        <div class="item">Item1</div>
        <div class="item">Item2</div>
        <div class="item">Item3</div>
        <div class="item">Item4</div>
        <div class="item">Item5</div>
        <div class="item">Item6</div>

    </div>

</body>
```

```
</html>
```

### ex:3

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            .container
            {
                width:100%;
                height:400px;
                border:2px solid black;
                display:flex;
            }

        </style>
    </head>
    <body>
        <div class="container">
            <div class="item">Item1</div>
            <div class="item">Item2</div>
            <div class="item">Item3</div>
            <div class="item">Item4</div>
            <div class="item">Item5</div>
            <div class="item">Item6</div>
        </div>
    </body>
</html>
```

```
flex-direction:row;  
}  
  
.container .item  
{  
    width:150px;  
    height:150px;  
    background-color:red;  
    box-sizing:border-box;  
    border:2px solid black;  
}  
  
</style>  
  
</head>  
  
<body>  
  
    <div class="container">  
        <div class="item">Item1</div>  
        <div class="item">Item2</div>  
        <div class="item">Item3</div>  
        <div class="item">Item4</div>  
        <div class="item">Item5</div>  
        <div class="item">Item6</div>  
    </div>  
  
</body>
```

```
</html>
```

#### ex:4

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            .container
            {
                width:100%;
                height:400px;
                border:2px solid black;
                display:flex;
                flex-direction:column;
            }

            .container .item
            {
                width:150px;
                height:150px;
                background-color:red;
                box-sizing:border-box;
                border:2px solid black;
            }
        </style>
    
```

```
</head>

<body>

    <div class="container">

        <div class="item">Item1</div>
        <div class="item">Item2</div>
        <div class="item">Item3</div>
        <div class="item">Item4</div>
        <div class="item">Item5</div>
        <div class="item">Item6</div>

    </div>

</body>

</html>
```

ex:5

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            .container
            {
                width:100%;
                height:400px;
                border:2px solid black;
            }
        </style>
    </head>
    <body>
        <div class="container">
            <div class="item">Item1</div>
            <div class="item">Item2</div>
            <div class="item">Item3</div>
            <div class="item">Item4</div>
            <div class="item">Item5</div>
            <div class="item">Item6</div>
        </div>
    </body>
</html>
```

```
        display:flex;  
        flex-direction:row-reverse;  
    }  
  
.container .item  
{  
    width:150px;  
    height:150px;  
    background-color:red;  
    box-sizing:border-box;  
    border:2px solid black;  
}  
  
</style>  
  
</head>  
<body>  
  
<div class="container">  
    <div class="item">Item1</div>  
    <div class="item">Item2</div>  
    <div class="item">Item3</div>  
    <div class="item">Item4</div>  
    <div class="item">Item5</div>  
    <div class="item">Item6</div>  
</div>
```

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

ex:6

```
<!DOCTYPE html>  
<html>  
    <head>  
        <title>IHUB TALENT</title>  
        <style>  
            .container  
            {  
                width:100%;  
                height:400px;  
                border:2px solid black;  
                display:flex;  
                flex-direction:column-reverse;  
            }  
            .container .item  
            {  
                width:150px;  
                height:150px;  
                background-color:red;  
                box-sizing:border-box;  
                border:2px solid black;  
            }  
        </style>
```

```
</head>

<body>

    <div class="container">
        <div class="item">Item1</div>
        <div class="item">Item2</div>
        <div class="item">Item3</div>
        <div class="item">Item4</div>
        <div class="item">Item5</div>
        <div class="item">Item6</div>
    </div>

</body>

</html>
```

**ex:7**

```
<!DOCTYPE html>

<html>

    <head>

        <title>IHUB TALENT</title>

        <style>

            .container
            {
                width:100%;
                height:400px;
            }
        </style>
    </head>
```

```
border:2px solid black;  
display:flex;  
flex-direction:row;  
flex-wrap:no-wrap;  
}  
  
.container .item  
{  
width:150px;  
height:150px;  
background-color:red;  
box-sizing:border-box;  
border:2px solid black;  
}  
  
</style>  
  
</head>  
  
<body>  
  
<div class="container">  
    <div class="item">Item1</div>  
    <div class="item">Item2</div>  
    <div class="item">Item3</div>  
    <div class="item">Item4</div>  
    <div class="item">Item5</div>  
    <div class="item">Item6</div>
```

</div>

</body>

</html>

```
<!DOCTYPE html>
```

<html>

## <head>

# <title>IHUB TALENT</title>

## <style>

.container

{

**width:100%;**

**height:400px;**

**border:2px solid black;**

**display:flex;**

**flex-direction:row;**

**flex-wrap:wrap;**

}

## .container .item

{

**width:150px;**

**height:150px;**

**background-color:red;**

## box-sizing:border-box;

```
border:2px solid black;  
}  
</style>  
  
</head>  
<body>  
  
<div class="container">  
    <div class="item">Item1</div>  
    <div class="item">Item2</div>  
    <div class="item">Item3</div>  
    <div class="item">Item4</div>  
    <div class="item">Item5</div>  
    <div class="item">Item6</div>  
</div>  
  
</body>  
</html>  
  
ex:9  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>IHUB TALENT</title>  
        <style>  
            .container
```

```
{  
    width:100%;  
    height:400px;  
    border:2px solid black;  
    display:flex;  
    flex-flow: row wrap;  
}  
.container .item  
{  
    width:150px;  
    height:150px;  
    background-color:red;  
    box-sizing:border-box;  
    border:2px solid black;  
}  
</style>  
  
</head>  
<body>  
  
<div class="container">  
    <div class="item">Item1</div>  
    <div class="item">Item2</div>  
    <div class="item">Item3</div>  
    <div class="item">Item4</div>
```

```
<div class="item">Item5</div>  
<div class="item">Item6</div>  
</div>  
  
</body>  
</html>
```

**ex:10**

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>IHUB TALENT</title>  
    <style>  
      .container  
      {  
        width:100%;  
        height:400px;  
        border:2px solid black;  
        display:flex;  
        flex-flow: row wrap;  
        justify-content:center;  
      }  
      .container .item  
      {  
        width:150px;  
        height:150px;  
      }  
    </style>  
  </head>  
  <body>  
    <div class="item">Item5</div>  
    <div class="item">Item6</div>  
    </div>  
  </body>  
</html>
```

```
background-color:red;  
box-sizing:border-box;  
border:2px solid black;  
}  
</style>  
  
</head>  
<body>  
  
<div class="container">  
    <div class="item">Item1</div>  
    <div class="item">Item2</div>  
    <div class="item">Item3</div>  
    <div class="item">Item4</div>  
    <div class="item">Item5</div>  
    <div class="item">Item6</div>  
</div>  
  
</body>  
</html>  
  
ex:11  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>IHUB TALENT</title>
```

```
<style>

    .container
    {
        width:100%;
        height:400px;
        border:2px solid black;
        display:flex;
        flex-flow: row wrap;
        justify-content:center;
        align-items:center;
    }

    .container .item
    {
        width:150px;
        height:150px;
        background-color:red;
        box-sizing:border-box;
        border:2px solid black;
    }
}

</style>
```

```
</head>
<body>

    <div class="container">
```

```
<div class="item">Item1</div>
<div class="item">Item2</div>
<div class="item">Item3</div>
<div class="item">Item4</div>
<div class="item">Item5</div>
<div class="item">Item6</div>
</div>
```

```
</body>
```

```
</html>
```

### ex:12

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>IHUB TALENT</title>
```

```
    <style>
```

```
        .container
```

```
    {
```

```
        width:100%;
```

```
        height:400px;
```

```
        border:2px solid black;
```

```
        display:flex;
```

```
        flex-flow: row wrap;
```

```
        justify-content:space-between;
```

```
        align-items:center;
```

```
}

.container .item

{

    width:150px;

    height:150px;

    background-color:red;

    box-sizing:border-box;

    border:2px solid black;

}

</style>

</head>

<body>

<div class="container">

    <div class="item">Item1</div>

    <div class="item">Item2</div>

    <div class="item">Item3</div>

    <div class="item">Item4</div>

    <div class="item">Item5</div>

    <div class="item">Item6</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>

```

## 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.googleapis.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 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}
        .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;  
        }  
    </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>
```

```
.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);

        }

    </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>
```

```
        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>
```

## 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>Hello World!</h1>
</body>
</html>
```

```
    }

</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>
```

## CSS forms

- Forms are used to accept the inputs/data from the enduser.
- It will send the data to database or server for processing.

ex:

index.html

```
<!DOCTYPE html>

<html>

<head>

    <title>MyPage</title>

    <!-- attach 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="#">  
  
        <input type="text" name="t1" autocomplete="off"  
            placeholder="username" required/> <br>  
        <input type="password" name="t2" autocomplete="off"  
            placeholder="password" required/> <br>  
        <input type="submit" value="submit"/>  
    </form>  
  
</div>  
<div class="box2">  
      
</div>  
</div>  
</body>  
</html>
```

### mystyles.css

```
*  
{  
    margin:0;  
    padding:0;  
}
```

```
.container
{
    width:800px;
    height: 400px;
    box-sizing: border-box;
    margin: 100px auto;
    box-shadow: 2px 2px 12px 6px #c3c3c3;
}

.container .box1
{
    width: 400px;
    height: 400px;
    box-sizing: border-box;
    background-color: #B53471;
    float:left;
}

.container .box1 h1
{
    text-align: center;
    padding:20px;
    color:#FFF;
    font-family: monospace;
    font-size:30px;
    font-style: italic;
    transition:all 2s linear;
}
```

```
}

.container .box1 h1:hover

{

    letter-spacing: 20px;

    text-decoration: underline;

}

.container .box1 form

{

    margin: 30px 70px;

}

.container .box1 form input[type="text"],input[type="password"]

{

    width:250px;

    height: 37px;

    margin:20px 0;

    border-radius: 15px;

    border:none;

}

.container .box1 form input[type="submit"]

{

    width:100px;

    padding:8px;

    margin: 15px 70px;
```

```
color: #B53471;  
font-size:16px;  
font-weight: bold;  
transition: all 1s linear;  
}  
  
.container .box1 form input[type="submit"]:hover  
{  
border:2px solid #FFF;  
background-color:#B53471;  
color:#FFF;  
padding:8px;  
}  
  
.container .box1 form input[placeholder]  
{  
text-align: center;  
font-size:18px;  
}  
  
.container .box2  
{  
width: 400px;  
height: 400px;  
box-sizing: border-box;  
background-color: #dfe6e9;
```

```
float:right;  
}  
  
.container .box2 img  
{  
width: 90%;  
height: 90%;  
padding: 20px;  
}
```