**CSS**

**Text- indent –** increase the space at starting of paragraph.

**Line-height –** used to increase size in between the lines of paragraph

**Letter-spacing –** used to increase space between letters.

**Word-spacing-** used to increase space between words.

**White-space :** pre – display the whitespace define in html page as it is.

**Writing-mode:** vertical-lr or rl – shows the vertical text

**Font-variant:small-caps** – creates all text capital but in small size.

**Font- style- variant-** width- size font name

We use length in width, height, margin, padding, font-size

• There are two type of units in css:

**a) Absolute**  **b) Relative**

**Absolute Unit In CSS :**

**1. Cm**

**2. Mm**

**3. Inch**

**4. Px**

**5. Pt**

**6. Pc**

**Search Relative Unit In CSS:**

**1. Em -** em is relative to the size of its direct parent

**2. Rem** - rem is only relative to root (html tag) size

**3. Vh -** 1% of view port height

**4. Vw -** 1% of view port height

**5. % -** relative to parent

**Image : opacity 0 to 1**

**#image{**

**Filter :blur (20px); Brightness(50%); Contrast :(20%); box-shadow(8px 8px 8px red) }**

**Image Sprite :**

 .sp{

   height: 60px;

   width: 190px;

   background-image: url(rbis\_logo.jpg);

   background-repeat: no-repeat;

   background-position: 0px -70px;

 }

**CSS Gradient :**

Background-image: linear-gradient(to top-right,red ,orange,yellow)

**OverFlow :- this property is used for hide or display content from predefine area.**

**Overflow:hidden**

**Overflow : scroll**

**Overflow-x: hidden;**

**Overflow-y:scroll;**

**CSS Resize :**

**It is used for restrict resize property of textarea. - Resize:none**

**Or used to resize content on web page (or div) – resize : both; vertical; horizontal;**

**Only used when Overflow :auto; scroll;**

**Border- collapse: collapse; separate;**

**Border-spacing:10px;**

**Functions in CSS:**

**Calc() :-**

**Div{**

**Background-color:red;**

**Height:200px;**

**Width:calc( 100%-200px )}**

**Variables in CSS:-**

**:Root{**

**--Text-color: black;**

**--Bg-color: oceanblue;**

**}**

* **Use variable name instead of color name**
* **It is used to maintain the theme/ brand color of website or web page**

**Div{**

**Background-color: var(--Bg-color)**

**}**

**Inherit; initial; property :**

**Inherit : This property takes the properties of parent like font color, background color**

**Initial :- This property sets by default to the content.**

**Pseudo- selector :-**

**First-clild; last-child; nth-child(6); nth-child(odd or even)**

**CSS Positions:-**

**Relative – start calculation from current position.**

**Absolute – start calculation from its positioned parent or from Body.**

**Fixed – start calculation from viewport size. And fixed at position without scroll.**

**Layers and Z-index :-**

**With the help of position we can create layers. Bu which layer should be display on top side they will deside by the Z- index.**

* **We should only apply z-index when the item is positioned.**

**Float and clear :-**

**Float is used to display the webpage structure like newspaper (image in text ).**

**We can move image to top, bottom, right, left rather the inside the text.**

**Ex – of Navigation Bar**

**Take ul and li**

**ul{ background-color: green;**

**list-style-type : none;**

**overflow : auto;**

**}**

**li{ padding :5px 10px;**

**float : left;**

**}**

**Clear is used when the sizes of floated element are not same the the nezt element will appear in the blank space. So we can restrict the element by setting property “ clear: both “ then the element will appear on bottom of both .**

**Transform :-**

* **Translate(100px)**
* **Rotate(30deg)**
* **Scale([current height \* integer value], [current width \* width])**

**scaleX = width scaleY = height**

* **Skew(10deg , 20deg) to bend the element.**

**Transition :-**

**Transition :property , duration, timing-function, delay**

**Transition: width, 0.5s , ease-in-out, 1s**

**KeyFrames in animation :-**

**@keyframes \_framename\_ {**

**From { }**

**To{ }**

**}**

**OR**

**@keyframes \_framename\_ {**

**0% { }**

**50%{ background-color:yellow }**

**100% { width :200px }**

**}**

**#animate{**

**Background-color : red;**

**Height:100px;**

**Width:10px;**

**Animation-name : framename;**

**Animation-duration : 4s;**

**Animation-iteration-count : infinite // for repeatation of animation**

**Animation-direction : reverse; alternate; alternate-reverse;**

**}**

**Print Media :- To restrict the print instriction**

 @media screen {

   p{

      font-family: 'Times New Roman', Times, serif;

      font-size: 25px;

   }

 }

 @media print {

   div{

      display: none;

   }

 }

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**Media Query is CSS :- (For Responsive website )**

**@media screen and (max-width: 400px){**

**#div1{**

**width: 100%; }**

**#div2width: 100%;**

**color: white;**

**background-color:**

**black; }**

**}**

**For responsive image :**

**Img{**

**Width :100%;**

**Height:auto;**

**}**

**Video{**

**Width :100%;**

**Height :auto;**

**}**

**Flexbox :-**

**Flex-grow : to increase size ratio**

**Flex-shrink : to decrease the size ratio**

**Flex-basis : to increase the size box in pixel.**

**Grid merge:**

**Grid1{**

**Grid-column : 1 / span 3; // it merge the 1st box to 3 greed**

**}**

**Media Quaries :-**

**@media (max-width : 500px) :- query written for: 0 to 500px**

**{**

**.sample{ BACKGROUND-COLOR : Yellow;**

**}**

**}**

**@media (min-width :500px) and (max-width : 1024px) = query for 500px to 1024px**

**{**

**.sample{**

**Background-color : blue:**

**}**

**}**

**Bootstrap 5.0**

**Padding class – py- 5 = defines left and right padding**

**Breakpoints**

**XXL >= 1400px**

**XL 1200px – 1399px**

**LG 992px – 1199px**

**MD 768px – 991px**

**SM 576px – 767px**

**XS 0px- 575px**

**JavaScript**

**Closure in js := function called inside another function. The variable declared in parent function that can display answer of insider function.**

**First class function (Anonymous function ) :**

**What is function statement := a simple function in js**

**What is function expression = a function is assign to an variable.**

**Different between both is of hoisting.**

**Javascript Promises :-**

**Let promise = new promise ((resolve , reject )=>{**

**})**

**Promises state = Pending , fulfilled, rejected**

**Best website template :-**

**https://demo.themefisher.com/bingo/**