CSS Cheat Sheet

A. What is CSS ?

❖ Cascading Style Sheets (CSS) is a style sheet language used to describe the presentation of a document written in HTML or XML.
❖ CSS provides a way to style HTML elements and create visually appealing web pages. CSS is widely used in web development and is a key tool for creating responsive and dynamic web pages.

B. Basic Syntax

CSS Selector	Description
*	Selects all elements
element	Selects all elements of a specific type
.class	Selects all elements with a specific class
#id	Selects the element with a specific ID
selector1, selector2	Selects all elements that match either selector1 or selector2
selector1 selector2	Selects all elements that match selector2 and are descendants of elements that match selector1
selector1 > selector2	Selects all elements that match selector2 and are direct children of elements that match selector1
selector1 + selector2	Selects the element that immediately follows selector1 and matches selector2
selector1 ~ selector2	Selects all elements that follow selector1 and match selector2

C. CSS Style :-

1. Selectors

- ❖ Universal Selector * {}
- ❖ Type Selector h1, h2 ,h3 {}
- ❖ Child Selector ul > li {}
- ❖ Descendant Selector p a {}
- ❖ Class Selector .class {}
- ❖ ID Selector #id {}
- ❖ Adjacent Sibling Selector h1 + p {}
- ❖ General Sibling Selector h1 ~ p {}
- ❖ Attribute Selector [attribute="SomeValue"] {}

2. Selectors & Elements

- ➢ Mouse Over Selector a:hover {}
- ➢ Active Link Selector a:active {}
- ➢ Focus Selector input:focus {}
- ➢ Visited Links Selector a:visited {}
- ➢ Link Selector .class:link {}
- ➢ First Line Selector p::first-line {}
- ➢ First Letter Selector p::first-letter {}
- ➢ First Child Selector p:first-child {}
- ➢ Last Child Selector p:last-child {}
- ➢ Only Child Selector p:only-child {}
- ➢ :nth-child Selector p:nth-child() {}
- ➢ First Element of its Parent Selector p:first-of-type {}
- ➢ Checked elements selector input:checked {}
- ➢ Disabled elements selector input:disabled {}
- ➢ Enabled elements selector input:enabled {}
- ➢ Elements that have no Children Selector (including text nodes) p:empty {}
- ➢ Not a Specified Element Selector :not(p) {}
- ➢ Before Element .class::before {}
- ➢ After Element .class::before {}

3. Text Styling

meaning of style :-

Property	Description
color:	Sets the color of text
font-size:	Sets the size of text
font-weight:	Sets the weight of text (e.g. bold)
font-style:	Sets the style of text (e.g. italic)
text-align:	Sets the alignment of text
text-decoration:	Sets the decoration of text (e.g. underline)
text-transform:	Sets the case of text (e.g. uppercase)
line-height:	Sets the height of a line of text
letter-spacing:	Sets the spacing between letters
word-spacing:	Sets the spacing between words
white-space:	Sets how white space is handled
text-shadow:	Adds a shadow to text

using of style :-

- ❖ Font style font-style: normal | italic | oblique
- ❖ Font Variant font-variant: normal | small-caps
- ❖ Font Weight font-weight: normal | bold | bolder | lighter | 100 - 900
- ❖ Vertical Alignment vertical-align: baseline | 10px | sub | super | top | text-top | middle | bottom | text-bottom | initial
- ❖ Font Size font-size: 12px | 0.8em | 80%
- ❖ Text Transform text-transform: capitalise | lowercase | uppercase
- ❖ Space Between Characters letter-spacing: normal | 4px
- ❖ Line Height line-height: normal | 3em | 34%
- ❖ Horizontal Alignment text-align: left | right | center | justify
- ❖ Text Align Last text-align-last: auto | left | right | center | justify | start | end | initial | inherit
- ❖ Text Decoration text-decoration: none | underline | overline | line-through
- ❖ Indent First Line text-indent: 25px
- ❖ Font Family font-family: 'Open Sans', sans-serif

- ❖ Text Justify text-justify: auto | inter-word | inter-character | none | initial |inherit
- ❖ Text Overflow text-overflow: clip | ellipsis | string | initial | inherit
- ❖ Text Shadow text-shadow: h-shadow v-shadow blur-radius color | none | initial | inherit

4. Position

meaning of style:-

Property	Description
position	Specifies the type of positioning used for an element
top	Sets the distance between the top edge of an element and the top edge of its containing element
bottom.	Sets the distance between the bottom edge of an element and the bottom edge of its containing element
left	Sets the distance between the left edge of an element and the left edge of its containing element
right	Sets the distance between the right edge of an element and the right edge of its containing element
z-index	Sets the stacking order of elements
float	Specifies whether or not an element should float
clear	Specifies which sides of an element other floating elements are not allowed
Position position:	static	relative	absolute	fixed	sticky

using of style:-

- ❖ Position Properties top | right | bottom | left
- ❖ Float Element float: left | right | none
- ❖ Clear Floating Elements clear: none | left | right | both
- ❖ Z Index z-index: 3 | auto | inherit

5. Background

meaning of style:-

Property	Description
background-color	Sets the color of an element's background
background-image	Sets an image as an element's background
background-repeat	Sets how an element's background image is repeated
background-position	Sets the position of an element's background image
background-size	Sets the size of an element's background image
Background attachment	Sets whether an element's background image scrolls with the page or is fixed

using of style:-

- Background Image background-image: url()
- Background Repeat background-repeat: repeat-x | repeat-y | repeat | space | round | no-repeat
- Background Color background-color: #2AA9E0
- Background Position background-position: top | right | bottom | left | center
- Background Attachment background-attachment: scroll | fixed | local | initial | inherit

6. Box properties

meaning of style :-

Property	Description
width	Sets the width of an element
height	Sets the height of an element
margin	Sets the margin of an element

margin-top	Sets the top margin of an element
margin-right	Sets the right margin of an element
margin-bottom	Sets the bottom margin of an element
margin-left	Sets the left margin of an element
padding	Sets the padding of an element
padding-top	Sets the top padding of an element
padding-right	Sets the right padding of an element
padding-bottom	Sets the bottom padding of an element
padding-left	Sets the left padding of an element
border	Sets the border of an element
border-top	Sets the top border of an element
border-right	Sets the right border of an element
border-bottom	Sets the bottom border of an element
border-left	Sets the left border of an element
border-width	Sets the width of a border
border-style	Sets the style of a border
border-color	Sets the color of a border
border-radius	Sets the radius of a border
box-sizing	Sets the box model for an element
overflow	Sets how content that overflows an element is handled
display	Sets the display style of an element
visibility	Sets the visibility of an element

using of style :-

- Box Sizing box-sizing: border-box | content-box
- Margin margin: 2px 4px 6px 8px | 0 auto
- Padding padding: 2px 4px 6px 8px
- Border Color border-color: #2AA9E0
- Border Style border-style: none | hidden | dotted | dashed | solid | double | groove | ridge | inset | outset
- Border Width border-width: 10px

7. List Styling

- List Type list-style-type: disc | circle | square | none
- List Position list-style-position: inside | outside
- List Image list-style-image: url()

8. Flexbox

meaning of style:-

Property	Description
display: flex	Sets an element as a flex container
flex-direction	Sets the direction of the flex container
justify-content	Sets the alignment of flex items along the main axis
align-items	Sets the alignment of flex items along the cross axis
flex-wrap	Sets whether flex items should wrap
align-content	Sets the alignment of flex lines along the cross axis
flex	Sets the flexible size of a flex item
order	Sets the order of a flex item
align-self	Sets the alignment of a single flex item along the cross axis

using of style:-

- display:flex
- Flex Direction flex-direction: row | row-reverse | column | column-reverse
- Flex Wrap flex-wrap: nowrap | wrap | wrap-reverse
- Justify Content justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly

- Align Items align-items: flex-start | flex-end | center | baseline | stretch
- Align Content align-content: flex-start | flex-end | center | space-between | space-around | stretch
- Order order: 0

- ➢ Flex Grow flex-grow: 0
- ➢ Flex Shrink flex-shrink: 1
- ➢ Flex Basis flex-basis: 3px | auto
- ➢ Align Self align-self: auto | flex-start | flex-end | center | baseline | stretch

9. CSS Grid

meaning of style :-

Property	Description
display: grid	Sets an element as a grid container
grid-template-columns	Sets the width of each column in the grid
grid-template-rows	Sets the height of each row in the grid
grid-template-areas	Sets the position of grid items using named grid areas
grid-column-gap	Sets the gap between columns in the grid
grid-row-gap	Sets the gap between rows in the grid
grid-gap	Sets the gap between rows and columns in the grid
grid-auto-columns	Sets the width of columns that aren't explicitly sized in the grid
grid-auto-rows	Sets the height of rows that aren't explicitly sized in the grid
grid-auto-flow	Sets the flow of grid items that aren't explicitly placed in the grid
grid-row-start	Sets the starting row position of a grid item
grid-row-end	Sets the ending row position of a grid item
grid-column-start	Sets the starting column position of a grid item
grid-column-end	Sets the ending column position of a grid item
grid-area	Sets the grid item's position using the grid-row-start, grid-row-end, grid-column-start, and grid-column-end properties

using of style:-

- display: grid
- Grid Template Columns grid-template-columns: 40px 50px auto 50px 40px
- Grid Template Rows grid-template-rows: 25% 100px auto
- Grid Template Areas grid-template-areas: "a b c" | none
- Grid Template grid-template: "a a a" 20% "b b b" auto | 100px 1fr / 50px 1fr
- Grid Column Gap grid-column-gap: 10px
- Grid Row Gap grid-row-gap: 10px
- Justify Items justify-items: start | end | center | stretch
- Align Items align-items: start | end | center | stretch
- Justify Content justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly
- Align Content align-content: flex-start | flex-end | center | space-between | space-around | stretch
- Grid Auto Columns grid-auto-columns: 100px | max-content | min-content
- Grid Auto Rows grid-auto-rows: 100px | max-content | min-content
- Grid Auto Flow grid-auto-flow: row | column | row dense | column dense
- Grid Column Start grid-column-start: 2 | areaname | span 2 | span areaname | auto
- Grid Column End grid-column-end: 2 | areaname | span 2 | span areaname | auto
- Grid Row Start grid-row-start: 2 | areaname | span 2 | span areaname | auto
- Grid Row End grid-row-end: 2 | areaname | span 2 | span areaname | auto
- Grid Column grid-column: 3 / span 2
- Grid Row grid-row: 3 / span 2
- Justify Self justify-self: start | end | center | stretch
- Align Self align-self: start | end | center | stretch

10. Dynamic Content

- CSS Variable --variable-name: value
- Variable Usage var(--variable-name)
- Counter Reset counter-reset: name-of-counter
- Counter Increment counter-increment: name-of-counter
- Counter Dynamic Value content: counter(name-of-counter)
- Attribute Dynamic Value content: attr(name-of-attribute)

11. Transform Properties

Property	Description
transform	Applies a 2D or 3D transformation to an element
transform-origin	Sets the origin point of a transformation
rotate	Rotates an element around a fixed point
scale	Increases or decreases the size of an element
translate	Moves an element along the horizontal and/or vertical axis
skew	Skews an element along the horizontal and/or vertical axis

12. Pseudo-class and Pseudo-element Properties

Property	Description
:active	Sets the styles for an element when it is being activated
:hover	Sets the styles for an element when it is being hovered
:focus	Sets the styles for an element when it has focus
:visited	Sets the styles for a visited link
:before	Inserts content before the content of an element
:after	Inserts content after the content of an element

13. Responsive Design Properties

Property	Description
@media	Sets styles for different screen sizes
max-width	Sets the maximum width of an element
min-width	Sets the minimum width of an element
width	Sets the width of an element
height	Sets the height of an element
max-height	Sets the maximum height of an element
min-height	Sets the minimum height of an element
viewport units	Sets sizes relative to the viewport

14. Animation and Transition Properties

Property	Description
animation-name	Sets the name of an animation
animation-duration	Sets the length of an animation
animation-timing-function	Sets the timing of an animation
animation-delay	Sets the delay before an animation starts
animation-iteration-count	Sets the number of times an animation should repeat
animation-direction	Sets the direction of an animation
animation-fill-mode	Sets what styles are applied to an element before and after an animation
animation-play-state	Sets whether an animation is running or paused
transition-property	Sets the CSS property to which a transition should be applied
transition-duration	Sets the length of a transition
transition-timing-function	Sets the timing of a transition
transition-delay	Sets the delay before a transition starts