

1. What is CSS?

- CSS = Cascading Style Sheets
- It is used to **style** HTML elements (colors, fonts, layout, etc.)

2. Ways to Use CSS

Туре	Syntax Example
Inline	Text
Internal	Inside <style> in <head></td></tr><tr><td>External</td><td>Linked with <link rel="stylesheet" href="style.css"></td></tr></tbody></table></style>

3. CSS Syntax

```
selector {
  property: value;
}
Example:
p {
  color: blue;
  font-size: 16px;
}
```

4. Selectors

Selector	Use
*	Universal selector
element	Targets all elements of that type
#id	Targets element with specific id
.class	Targets all elements with that class
element1, element2	Group multiple elements
element element	Descendant (nested inside)
element > element	Direct child
element + element	Immediately after sibling

5. Colors in CSS

```
color: red;
color: #ff0000;
color: rgb(255, 0, 0);
color: rgba(255, 0, 0, 0.5);
```

6. Text Styling

color: black; text-align: center;

text-decoration: underline / none / line-through;

text-transform: uppercase / lowercase;

font-family: Arial, sans-serif;

font-size: 20px; font-weight: bold; letter-spacing: 2px;

line-height: 1.5;

7. Box Model

- Each element is a box made of:
 - o content
 - padding
 - o border
 - o margin

padding: 10px;

margin: 20px;

border: 2px solid black;

8. Backgrounds

background-color: lightblue;

background-image: url("image.jpg");

background-repeat: no-repeat;

background-size: cover;

background-position: center;

9. Borders

border: 2px solid red;

border-radius: 10px; /* Rounded corners */

10. Width & Height

width: 200px;

height: 100px;

max-width: 100%;

11. Display Property

Value	Description
block	Takes full width
inline	Takes only needed width
inline-block	Like inline + allows box model
none	Hides the element
flex	Makes element a flex container

12. Positioning

Value	Description
static	Default
relative	Position relative to normal
absolute	Relative to nearest positioned parent
fixed	Fixed to screen
sticky	Sticks when scrolling

position: absolute;

top: 10px;

left: 20px;

13. Flexbox (1D Layout)

display: flex;

flex-direction: row / column;

justify-content: center / space-between / space-around;

align-items: center / flex-start / flex-end;

gap: 10px;

14. Grid (2D Layout)

```
display: grid;
grid-template-columns: repeat(3, 1fr);
grid-template-rows: auto;
gap: 20px;
```

15. Pseudo Classes

```
a:hover { color: red; }
input:focus { background-color: yellow; }
li:first-child { font-weight: bold; }
```

16. Pseudo Elements

```
p::first-letter { font-size: 30px; }
p::before { content: "* "; color: gold; }
```

17. Transitions

transition: all 0.3s ease-in-out;

18. Transformations

transform: scale(1.2);
transform: rotate(45deg);

```
19. Animations
```

```
@keyframes slide {
  from { left: 0; }
  to { left: 100px; }
}
.box {
  animation: slide 2s infinite;
}
```

20. Media Queries (Responsive Design)

```
@media (max-width: 600px) {
  body {
  background-color: lightgray;
  }
}
```

21. Z-index (Layering)

```
position: absolute;
z-index: 2;
```

22. Overflow

overflow: auto / scroll / hidden / visible;

23. Opacity & Visibility

```
opacity: 0.5; /* 0 (transparent) to 1 (visible) */
visibility: hidden; /* hides but keeps space */
```

24. Cursor Styles cursor: pointer; cursor: not-allowed; 25. Important Keyword color: red !important; /* Overrides all other styles */

INTERVIEW QUESTIONS

Basics

- 1. What is CSS?
 - → Cascading Style Sheets, used for styling HTML.
- 2. Types of CSS?
 - → Inline, Internal, External.
- 3. How to link external CSS?
 - → href="style.css">
- 4. What is a selector in CSS?
 - → It selects the HTML element to style.
- 5. What is the syntax of CSS?
 - → selector { property: value; }
- 6. What is the difference between class and ID?
 - \rightarrow .class is reusable, #id is unique.
- 7. How to write a comment in CSS?
 - \rightarrow /* This is a comment */
- 8. What is the Box Model?
 - \rightarrow Content \rightarrow Padding \rightarrow Border \rightarrow Margin.
- 9. What is the default position in CSS?
 - \rightarrow static
- 10. How to apply multiple classes?
 - \rightarrow <div class="box red"></div>

© Colors & Fonts

11. How to change text color?

 \rightarrow color: red;

12. How to set background color?

→ background-color: blue;

13. How to use a Google Font?

→ Link it in HTML and use font-family.

14. Font units commonly used?

 \rightarrow px, em, rem, %

15. How to bold text?

→ font-weight: bold;

16. How to italicize text?

→ font-style: italic;

17. Text alignment?

→ text-align: left/center/right;

18. Transform text to uppercase?

→ text-transform: uppercase;

19. Underline text?

→ text-decoration: underline;

20. Change font size?

 \rightarrow font-size: 20px;

Box Model & Layout

- 21. Padding vs Margin?
 - → Padding is inside border; margin is outside.
- 22. How to center a block element?
 - \rightarrow margin: auto;
- 23. Make a div scrollable?
 - \rightarrow overflow: auto;
- 24. Hide an element?
 - → display: none; or visibility: hidden;
- 25. Rounded corners?
 - \rightarrow border-radius: 10px;
- 26. Set border?
 - → border: 1px solid black;
- 27. Set element size?
 - → width and height
- 28. What is z-index?
 - → Controls stack order (layering).
- 29. What is box-sizing?
 - → Controls if padding/border are included in width.
- 30. Remove default margin/padding?
 - \rightarrow margin: 0; padding: 0;

Nosition & Display

- 31. Different CSS positions?
 - → static, relative, absolute, fixed, sticky
- 32. What is relative positioning?
 - → Moves element relative to itself.
- 33. What is absolute positioning?
 - → Positions element relative to nearest positioned parent.
- 34. Use of fixed?
 - → Element stays fixed when scrolling.
- 35. Use of sticky?
 - → Sticks in place when scrolling past it.
- 36. Difference: block vs inline?
 - → Block: full width; Inline: only content width.

- 37. What is inline-block?
 - → Like inline, but respects box model.
- 38. What is display: none?
 - → Hides element completely.
- 39. What is visibility: hidden?
 - → Hides element but keeps space.
- 40. What is float?
 - → Places element to left/right of container.

Flexbox, Grid, & Responsive

- 41. What is Flexbox?
 - → One-dimensional layout system.
- 42. Enable Flexbox?
 - \rightarrow display: flex;
- 43. Align items in center?
 - → justify-content: center; align-items: center;
- 44. Direction of Flexbox?
 - → flex-direction: row/column;
- 45. What is Grid?
 - → Two-dimensional layout system.
- 46. Enable Grid?
 - \rightarrow display: grid;
- 47. Set grid columns?
 - \rightarrow grid-template-columns: repeat(3, 1fr);
- 48. Make site responsive?
 - \rightarrow Use @media queries.
- 49. What is a media query?
 - \rightarrow CSS rule for specific screen sizes.
- 50. Difference: Flexbox vs Grid?
 - \rightarrow Flexbox = 1D (row or column); Grid = 2D (rows + columns)