HTML, CSS, and JavaScript FAQs

Topics covered : HTML5, CSS3, DOM, arrays, objects and ES6 features,

HTML (1–15)

1. What is the difference between HTML and HTML5?
2. What are semantic tags in HTML5? Name a few examples.
3. What is the purpose of the `<!DOCTYPE html>` declaration?
4. What is the difference between `<div>` and `<span>`?
5. How do you create a form in HTML? What are some commonly used form elements?
6. What are the differences between `id` and `class` attributes?
7. What is the use of the `data-*` attribute in HTML5?
8. What is the difference between `localStorage`, `sessionStorage`, and cookies?
9. What are HTML5 input types? Name a few.
10. What is the use of the `<meta>` tag in HTML?
11. How can you make a link open in a new tab?
12. What is the difference between `<script>` placed in `<head>` vs `<body>`?
13. What is the role of the `<canvas>` element?
14. What is the difference between `em`, `strong`, `b`, and `i` tags?
15. How do you embed a video or audio in HTML5?

CSS (16–30)

16. What is the difference between `id` and `class` in CSS?
17. What are the three ways to apply CSS to a web page?
18. What is the difference between `relative`, `absolute`, and `fixed` positioning?
19. What are pseudo-classes in CSS? Give examples.
20. What are media queries and how do you use them?
21. What is the difference between `em`, `rem`, `%`, and `px` units?
22. How does `z-index` work in CSS?
23. What is the box model in CSS?
24. How can you center a `div` both vertically and horizontally?
25. What are flexbox and grid in CSS3? Compare them briefly.
26. What is the difference between `visibility: hidden` and `display: none`?
27. How do you apply styles conditionally using CSS classes?
28. What is the use of `calc()` function in CSS?
29. What are CSS transitions and how do you use them?
30. What is the difference between `inline`, `block`, and `inline-block` elements?

JavaScript (31–45)

31. What is the difference between `var`, `let`, and `const`?
32. What is hoisting in JavaScript?

33. What are arrow functions and how are they different from regular functions?

34. What is the difference between `==` and `===`?

35. What are template literals in ES6?

36. What is the DOM and how can you manipulate it using JavaScript?

37. How do you select elements from the DOM?

38. What is event delegation and why is it useful?

39. What is the difference between synchronous and asynchronous code?

40. What is a callback function? Give an example.

41. How do you clone or copy objects in JavaScript?

42. How does event bubbling work in JavaScript?

43. What is an array in JavaScript? How do you iterate through it?

44. What are array methods like `map`, `filter`, `reduce`, and `forEach`?

45. What is the difference between `null`, `undefined`, and `NaN`?

ES6 - Adv.JavaScript (46–50)

46. What is the spread/rest operator in ES6?

47. What are JavaScript objects and how are they different from arrays?

48. What is destructuring assignment in JavaScript?

49. What is the use of promises in JavaScript?

50. What are async/await keywords used for?