

Q1 [Interview] What is the DOM?

Ans: The Document Object Model represents the page structure as objects.

Q2 [Interview] How do you select an element by ID?

Ans: Use `getElementById()`.

```
document.getElementById('id')
```

Q3 [Interview] How do you select elements by class name?

Ans: Use `getElementsByClassName()`.

```
document.getElementsByClassName('class')
```

Q4 [Interview] How do you use `querySelector`?

Ans: It selects the first matching element.

```
document.querySelector('.class')
```

Q5 [Interview] What is the difference between `querySelector` and `getElementById`?

Ans: `querySelector` is more flexible and supports CSS selectors.

Q6 [Interview] How do you attach an event listener?

Ans: Use `addEventListener()`.

```
element.addEventListener('click', handler)
```

Q7 [Interview] What is event delegation?

Ans: Handling events at a parent instead of every child.

Q8 [Interview] How to change the style of an element?

Ans: Use `element.style.property`.

```
element.style.color = 'red';
```

Q9 [Interview] What is `innerText` vs `innerHTML`?

Ans: `innerText` gives text only, `innerHTML` gives full markup.

Q10 [Interview] How to remove an element from the DOM?

Ans: Use `removeChild()` or `element.remove()`.

Q11 [Interview] How do you create a new element?

Ans: Use `document.createElement()`.

```
let div = document.createElement('div');
```

Q12 [Interview] How do you append a child to an element?

Ans: Use `appendChild()`.

```
parent.appendChild(child);
```

Q13 [Interview] What is the purpose of `preventDefault()`?

Ans: Prevents default action of event like form submission.

Q14 [Interview] What is `stopPropagation()`?

Ans: Stops event from bubbling up.

Q15 [Interview] How to check if an element has a class?

Ans: Use `classList.contains()`.

```
el.classList.contains('active')
```

Q16 [DSA] Toggle a class on click.

Ans: Use `classList.toggle()` inside click handler.

```
btn.addEventListener('click', () => {  
    box.classList.toggle('active');  
});
```

Q17 [DSA] Change image src on hover.

Ans: Use `mouseover/mouseout` events.

Q18 [DSA] Count number of `` in list.

Ans: Use `getElementsByTagName`.

```
document.getElementsByTagName('li').length
```

Q19 [DSA] Create a div and append to body.

Ans: Use `createElement` and `appendChild`.

Q20 [DSA] Add text to a `<p>` on button click.

Ans: Use `innerText` inside handler.

Q21 [DSA] Disable a button when clicked.

Ans: Use `element.disabled = true`.

Q22 [DSA] Scroll to top on click.

Ans: Use `scrollTo()`.

```
window.scrollTo(0, 0);
```

Q23 [DSA] Print form input values on submit.

Ans: Use `e.preventDefault()` and `form.elements`.

Q24 [DSA] Remove all children of a node.

Ans: Loop while `node.firstChild` and `remove`.

Q25 [DSA] Change background of every even ``.

Ans: Use `querySelectorAll` and loop with index.

Q26 [DSA] Replace element with another.

Ans: Use `replaceChild()`.

Q27 [DSA] Create a dynamic list from array.

Ans: Loop over array, create `li`, `append`.

Q28 [DSA] Count clicks on a button.

Ans: Increment a counter variable inside handler.

Q29 [DSA] Clone and insert an element.

Ans: Use `cloneNode()` and `insertBefore()`.

Q30 [DSA] Add multiple event listeners dynamically.

Ans: Loop over elements and attach listeners.

Q31 [LeetCode] What does `querySelectorAll` return?

Ans: A `NodeList` (not live).

Q32 [LeetCode] Is `getElementsByClassName` live?

Ans: Yes.

Q33 [LeetCode] What is returned by `getElementById` if not found?

Ans: `null`.

Q34 [LeetCode] How do you get value of an input?

Ans: `input.value`

Q35 [LeetCode] What is `parentNode`?

Ans: Returns parent of the element.

Q36 [LeetCode] Is `classList` a property?

Ans: Yes, it's a `DOMTokenList`.

Q37 [LeetCode] Can you `removeEventListener` without same reference?

Ans: No.

Q38 [LeetCode] What event fires on input change?

Ans: `input`

Q39 [LeetCode] How to add style dynamically?

Ans: `element.style.cssText = 'color:red'`

Q40 [LeetCode] `innerText` vs `textContent`?

Ans: `textContent` includes hidden content too.

Q41 [Conceptual] Is `NodeList` an Array?

Ans: No, but it can be converted.

Q42 [Conceptual] Is the DOM part of JavaScript?

Ans: No, it's provided by the browser.

Q43 [Conceptual] What is reflow?

Ans: When layout changes in DOM, triggering repaint.

Q44 [Conceptual] What is bubbling?

Ans: Event propagates from target to top.

Q45 [Conceptual] Can we attach event to window?

Ans: Yes.

Q46 [Conceptual] Does setting `innerHTML` remove events?

Ans: Yes.

Q47 [Conceptual] Are all elements nodes?

Ans: Yes.

Q48 [Conceptual] Does every element have parentNode?

Ans: Except the root.

Q49 [Conceptual] Is onclick = function same as addEventListener?

Ans: Similar but only one handler allowed with onclick.

Q50 [Conceptual] What is document.body?

Ans: Returns <body> element.