

Sheryians Presents

JavaScript Interview **Essentials**

1. What is hoisting?

JavaScript moves function and variable declarations to the top of their scope before running the code.

👉 That's why you can use a function before it's written.

2. Difference between == and ===

- == checks value only (does type conversion).
- === checks value + type (strict comparison).

👉 Always use === for accuracy.

3. What is a closure? Use case?

A function that remembers the variables from its outer scope even after the outer function has finished.

👉 Used in private variables, currying, and factory functions.

4. What is Event Delegation?

Instead of adding listeners to many child elements, add one to the parent and handle events using `event.target`.

👉 Improves performance and handles dynamic elements.

5. Shallow vs Deep Copy

- Shallow Copy → Only top-level is copied; nested objects still linked.
- Deep Copy → Full independent clone, including nested values.

6. Call, Apply, Bind

All three set this manually.

- `call()` → runs function with args
- `apply()` → same as call but with array
- `bind()` → returns new function with this fixed

7. this in arrow vs normal functions

- Arrow functions don't have their own this → they use the parent's.
- Normal functions get this based on how they're called.

8. Prototype and Inheritance

All JS objects inherit from a prototype.

You can share methods across objects using prototype chaining.

9. Difference: map, reduce, filter

- map() → transforms every item → returns new array
- filter() → removes items → returns new array
- reduce() → turns array into a single value

10. How does async/await work internally?

It's just a prettier way to write Promises.

Behind the scenes, it's still using .then() and a Promise chain.

11. Difference between null and undefined

- undefined → variable declared but not assigned
- null → intentional empty value assigned by you

12. Debounce vs Throttle

- Debounce → runs a function after pause in activity
- Throttle → runs a function every X ms, no matter

how often event fires

13. Memory Leaks in JS

When something (like a timer or event listener) keeps using memory even when it's no longer needed → app gets slow over time.

14. Event Loop Phases

Controls how JS handles tasks.

- Call stack runs sync code
- Web APIs handle async (like setTimeout)
- Event loop moves ready callbacks to stack when it's

empty