JavaScript Interview Questions

# Core JavaScript Questions

* What is the difference between var, let, and const?
* Explain hoisting in JavaScript.
* What is the event loop, and how does it work?
* What is the difference between == and ===?
* Explain closures and give an example.
* What are JavaScript data types?
* What is a promise? How is it different from a callback?
* What is the difference between synchronous and asynchronous code?
* Explain the concept of scope in JavaScript.
* What is the difference between null and undefined?

# Functions & Execution Context

* What is the difference between function declaration and function expression?
* What is a higher-order function?
* What is the this keyword? How does it behave in different contexts?
* What is the difference between call(), apply(), and bind()?
* What are arrow functions, and how are they different from regular functions?

# ES6+ Features

* What are template literals?
* What are destructuring assignments?
* What are spread and rest operators?
* What is a Set and a Map?
* Explain default parameters.
* What is optional chaining (?.) and nullish coalescing (??)?

# Objects and Arrays

* What are the different ways to clone an object?
* How does prototypal inheritance work in JavaScript?
* What is the difference between Object.create() and constructor functions?
* How do you check if a key exists in an object?

# Asynchronous JavaScript

* What are async/await? How do they work?
* What is the difference between microtasks and macrotasks?
* How does fetch work? How do you handle errors with fetch?
* What is a race condition, and how can you prevent it in JS?
* How would you implement retry logic in an async function?

# Browser Environment / DOM

* What is the DOM?
* How does event delegation work?
* What are event bubbling and capturing?
* What is the difference between addEventListener and onclick?
* How do you debounce or throttle a function?
* What is localStorage vs sessionStorage?
* How would you make a deep copy of an object in JavaScript?

# Tricky & Advanced Questions

* What will the following code output and why?  
  let a = {};  
  let b = a;  
  a = null;  
  console.log(b); // ?
* What is a memory leak? How do you prevent it in JS?
* How does garbage collection work in JavaScript?
* What are WeakMap and WeakSet?
* What are modules in JavaScript? How do you export and import them?