- 1. What is JavaScript
- 2. How DOM Api works
- 3. How to handle HTML Nodes & elements
- 4. Browser API
- 5. JavaScript Basics 1
- 6. How JS Works under the hood
- 7. JavaScript variables
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- 11. JavaScript Functions
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- 17. Types of promises & async properties
- 18. Events
- 19. Context Methods
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- 21. New Bonus add-ons(Explore)
- 22. Polyfils
- 23. Prototypes

1. What is JavaScript

- 1. What we can do with JS
- 2. How to use it
- 3. What is JS DOM
- 4. What is browser API
- 5. How to embed JS in a web page
- 6. How to embed a external JS in a webpage
- 7. How browser forms DOM from a HTML page

- 8. How to access DOM element using document
- 2. How DOM Api works
 - 1. What are DOM Api's
 - 1. document.body
 - 2. document.write
 - 3. getElementByld
 - 4. getElementsByClassName
 - 5. getElementsByName
 - 6. getElementsByTagName
 - 7. querySelector
 - 8. querySelectorAll
 - 9. Append
 - 10. appendChild
 - 11. Fragment
 - 12. remove
 - 2. How to change & manipulate content in HTML using JS
 - 3. How to apply CSS using JS
 - 4. What is async & defer in script tag
 - 5. What is prefetch, preload & preconnect

3. How to handle HTML Nodes & elements

- 1. What are these methods & how does it works
 - 1. InnerHTML
 - 2. InnerText
 - 3. textContent
 - 4. append
 - 5. appendChild
- 2. How to create an element
- 3. How to render a list
- 4. Difference between append vs appendChild

4. Browser API

- 1. console.log
- 2. document
- 3. Set Time Out
- 4. Set Immediate
- 5. Set Time Interval
- 6. Fetch Network calling API
- 7. Storage
 - 1. Local Storage
 - 2. Session Storage
 - 3. Cookies

5. JavaScript Basics 1

- 1. Data Types & usage
 - 1. Types of data types
 - 2. How it's different & works internally
 - 3. Q&A based on types
- 2. typeof x vs typeof (x)
- 3. Arithmetic Operators
- 4. Logical Operators

6. How JS Works under the hood

- 1. How JS engine executes code from the top to bottom
- 2. Creation vs Execution phase
- 3. What is code creation or memory allocation phase
- 4. Call stack & it's working

7. JavaScript variables

- 1. Let
- 2. Var
- 3. Const
- 4. Why var is not a global scope always
- 5. In which scope let, var or const is getting saved
- 6. What is temporal dead zone for Let & Const
- 7. How variables are working in different scope

8. JavaScript Scope

- 1. Global Scope
- 2. Local/Function Scope
- 3. Script/Block scope

9. JavaScript Errors

- 1. Type Error
- 2. Reference Error
- 3. Syntax Errors

10. JavaScript Hoisting

- 1. What is hoisting
- 2. What elements are getting hoisted & how does it works
- 3. Explain using chrome

11. JavaScript Functions

- 1. Types of functions
 - 1. Regular function
 - 2. Function expression
 - 3. Arrow function
 - 4. Anonymous function
 - 5. IIFE Function
 - 6. First class function
 - 7. Async function
 - 8. Constructor function
 - 9. Callback function
- 2. Regular vs arrow function
- 3. Arguments vs Parameters

12. JavaScript Objects

- 1. What are objects
- 2. How does it works
- 3. Why we're using Objects
- 4. Limitation of JS objects
- 5. Object methods & its use cases
 - 1. hasOwnProperty
 - 2. Object.keys
 - 3. Object.entries
- 6. How to work with nested objects
- 7. Handle objects dynamically
- 8. Optional Chaining
- 9. Looping an object
- 10. What is JSON.stringify vs JSON.parse
- 11. Shallow vs Deep copy
- 12. Spread & Rest Operators
- 13. Object Destructuring & its applications
- 14. Merging of objects

13. JavaScript Arrays

- 1. What are array
- 2. How does it works
- 3. Why we're using Arrays
- 4. Limitation of JS arrays
- 5. Array methods & its use cases
 - 1. Set
 - 2. Map
 - 3. Filter
 - 4. Reduce
 - 5. Some
 - 6. Find
 - 7. IndexOf
 - 8. Contains
 - 9. Push
 - 10. Pop
 - 11. Slice
 - 12. Splice
 - 13. Shift
 - 14. Unshift
 - 15. Sort
- 6. Looping an array
- 7. How to work with nested Array elements
- 8. What is JSON.stringify vs JSON.parse
- 9. Shallow vs Deep copy
- 10. Spread & Rest Operators
- 11. Array Destructuring & its applications
- 12. Merging of Arrays

14. Closures

- 1. What are closures
- 2. How does it works
- 3. What's the use case of it

15. JavaScript Prototypes

- 1. What are prototypes
- 2. How to access it's any object prototype
- 3. Is JS Prototype & Inheritance similar
- 4. How Prototypes are different than classes
- 5. How to define our own prototype
- 6. What are polyfills in JS

16. JavaScript This

- 1. What is JS this
- 2. How it works
 - 1. Normal Function
 - 2. Arrow Function
 - 3. Constructor Function
 - 4. Objects
 - 5. Event
 - 6. Global
- 3. Use case of this

17. Asynchronous JavaScript

- 1. What is Async JS
- 2. How does it work & different from regular
- 3. How browser handles it
- 4. What is Callback vs Micro Task queue
- 5. What is Event Loop
- 6. How does event loop work
- 7. Which methods fall in callback or micro-task queue
- 8. What are promises & why we use it

18. Types of promises & async properties

- 1. All
- 2. All Settled
- 3. Any
- 4. Race
- 5. Type of async waiting methods
 - 1. setTimeOut
 - 2. setTimeInterval
- 6. How callback works with promised
- 7. Callback hell/Pyramid of doom
- 8. Promise chaining
- 9. Promise using Async & Await
- 10. How to call an API using
 - 1. XMLHTTPRequest
 - 2. Fetch
 - 3. Axios

19. Events

- 1. Debouncing
- 2. Throttling
- 3. Bubbling

20. Context Methods

- 1. Call
- 2. Bind
- 3. Apply

21. Best Practises

- 1. Try catch
- 2. Guard block
- 3. Airbnb JS guide
- 4. ESlint
- 5. Prettier
- 6. Throw Error
- 7. Unit Test cases
- 8. Learn from other's code

22. New Bonus add-ons(Explore)

- 1. New ES6, ES7, ES8, ES9, ES10, ES11, ES12
- 2. Template literal & strings
- 3. String Replace all
- 4. Numeric Separators
- 5. Method Chaining
- 6. Polyfill of (bind and array flat method)
- 7. Logical assignment operators
 - 1. And & Equals (&&=)

- 2. OR & Equals (||=)
- 3. Nullish Coalescing & Equals (??=)