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. getElementById
    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 (??=)