JavaScript Course Structure Cynohub

≔ Tags

Javascript Fundamentals

1. Hello World Program
2. Linking JS File to HTML document
3. Variables
4. Data types
5. Let, Const & var
6. Operators
7. Operator Precedence
8. Strings & Template literals
9. String methods and String Manipulation
10. Type conversion (coercion)
11. Logical Operators
12. Switch Statement
13. Expressions (BODMAS)

Javascript Fundamentals - Part 2

1. Activating Strict mode
2. Introduction to Functions
3. Introduction to Arrays

4. Array Methods

5. Math & Rounding Methods

6. Introduction to Objects

7. Dot vs Bracket Notation

8. Object Methods

9. Loops (For Loop & While loop)

10. Iterating through Arrays

11. Break & Continue in array loops

12. Looping Object Keys, Values & entries

DOM & Event Fundamentals

1. What is DOM & DOM Manipulation

2. Selecting & Manipulating Elements

3. Creating & Deleting elements

4. Styles, attributes & classes

5. Lifecycle DOM Events & Event Handlers (Basic Event Handlers)

6. Passing arguments to event handlers

7. Intersection observer API

8. Handling Click events

9. Handling keyboard events

10. Introduction to Classes

JavaScript Behind the Scenes

1. JavaScript Engine

2. Javascript Runtime

3. Execution Context & Call Stack

4. Scope & the Scope chain

5. scoping in practice

6. Hoisting

7. Temporal Dead Zone (TDZ)

8. this keyword & examples

9. Regular functions vs arrow functions

10. Primitives vs Objects

Data Structures

1. Destructuring arrays

2. Destructuring objects

3. Spread operator

4. Enhanced object literals

5. Sets

6. Maps & Iterations

7. Which Data Structure to use in difference scenarios

Functions Deep Dive

1. Pass by Value & Pass By Reference

2. First Class & Higher order functions

3. Callback Functions

4. Call & Apply methods

5. The bind method

6. Immediately invoked function expressions.

7. Closures

Arrays Deep Dive

1. Looping Arrays with Maps & Sets

2. Creating DOM Elements with Array information

3. Data transformations : Map, filter & reduce

4. Map Method

5. Filte Method

6. Reduce method

7. Find & FindIndex method

8. Some, every, flat & flatMap methods

9. Sorting Arrays

Dates & Timers

1. Creating Dates

2. Operations with Dates

3. SetTimeout & SetInterval

4. Creating a countdown timer

Object Oriented Programming with JavaScript

1. OOPS concepts

2. Constructor functions & new operator

3. Prototypes

4. Prototypal inheritance Prototype chain

5. ES6 Classes

6. setters & getters

7. static methods

8. Object.create

9. Inheritance & use cases

10. Encapsulation : Concept & Use Cases

11. Encapsulation: Protected Properties and Methods

12. Encapsulation: Private Class Fields and Methods

13. Chaining Methods

Asynchronous JavaScript: Promises, Async/Await

1. Request & Response

2. Callback hell

3. Promises

4. The Event loop

5. Getting Data through API

6. Consuming Promises with Async/Await

7. Handling errors with try & catch

8. Returning values from async functions

9. Returning promises in parallel

3 Projects in JavaScript