

Week 2 Topics

1. Working of JS

- a. Execution Context
- b. Hoisting
- c. Call Stack
- d. Scope
- e. Scope Chaining
- f. Undefined, Not Defined and TDZ
- g. Strict Mode
- h. Let and var
- i. Closures
- j. JS runtime

2. Function in JS

- a. Function Expression
- b. Arrow Function
- c. IIFE
- d. Pure function
- e. Callback function
- f. Function returning Function
- g. Higher Order Functions
- h. Currying
- i. map(), reduce(), filter(), find(), findIndex()
- j. this keyword

3. OOP in JS

- a. Object literals
- b. this of Objects
- c. Constructor function
- d. Prototype
- e. Prototype Chain
- f. Arrays Prototype
- g. Object.create
- h. call/apply/bind methods
- i. Object destructuring
- j. Array Destructuring

4. ES6 Classes

- a. Class in JS
- b. Constructor function vs classes
- c. Encapsulation
- d. Inheritance in classes
- e. Inheritance in Constructor function
- f. static keyword
- g. getter and setter
- h. built-in classes
- i. JSON
- j. Shallow copy
- k. Deep copy