Sheryians
Coding School

Live Cohort

DAY-39

Question Sheet

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🟢 Level 1 – Basic Function, Array & Object Code Tasks (Easy)

1. Write a function `sayHello()` that prints `"Hello JavaScript"`.
2. Create a function `add(a, b)` that returns their sum and log the result.
3. Write a function with a default parameter `name = "Guest"` that prints `"Hi <name>"`.
4. Use rest parameters to make a function that adds unlimited numbers.
5. Create an IIFE that prints `"I run instantly!"`.
6. Make a nested function where the inner one prints a variable from the outer one.
7. Create an array of 5 fruits. Add one at the end and remove one from the beginning.
8. Use a `for` loop to print all elements of an array.
9. Create an object `person` with keys `name`, `age`, and `city`, and print each key's value.
10. Use `setTimeout()` to log `"Time's up!"` after 2 seconds.

Question Sheet

🟡 Level 2 – Functional Thinking & Logic Tasks (Intermediate)

1. Write a higher-order function `runTwice(fn)` that takes another function and executes it two times.
2. Create one pure function that always returns the same output for a given input, and one impure function using a global variable.
3. Write a function that uses object destructuring inside parameters to extract and print `name` and `age`.
4. Demonstrate the difference between normal function and arrow function when used as object methods (the `this` issue).
5. Given an array of numbers, use `map()` to create a new array where each number is squared.
6. Use `filter()` to get only even numbers from an array.
7. Use `reduce()` to find the total salary from an array of numbers `[1000, 2000, 3000]`.
8. Create an array of names and use `some()` and `every()` to test a condition (e.g., all names longer than 3 chars).
9. Create an object `user` and test the behavior of `Object.freeze()` and `Object.seal()` by adding/changing keys.
10. Create a nested object (`user → address → city`) and access the city name inside it.