Java script is single threaded.

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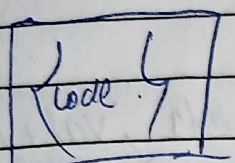
Java script Execution context

→ matlab run कैसे होता है

→ Java script runs program in two phases.



→ Global Execution context.

→ इसको this भी कह देते है।

(browser में Global का object Window होता है।)

- Global Execution context
- function Execution context
- Eval Execution context.

Two phase :- जो भी code execute होता है।

- Memory Creation phase. → memory allocation होता है।
- Execution phase.

Example :-

Example

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```
let val1 = 10
let val2 = 5
function addNum (num1, num2) {
        let total = num1 + num2
        return total
}
let result1 = addNum (val1, val2)
let result2 = addNum (10, 5)
```

① → Global Execution or Environment.
↓
this

② Memory Phase or MCP

val1 → undefined
val2 → undefined
addnum → defination
result 1 → undefined
result 2 → undefined.

③ Execution phase.

val1 ← 10
result2 → val2 ← 5
addNum →
→ result1 = 15

↳ one more Execution at context

new var environment
+
Execution thread.

whenever there is a function it will create new Exec. context and that will again perform the two phases MCP and EP.

This will delte after the execution and value will be added to Execution phase

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Memory phase

var1 → undefined

var2 → undefined.

total → undefined.

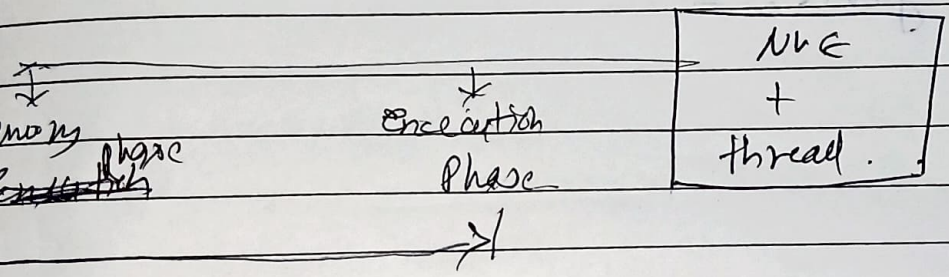
Execution phase

num1 → 10

num2 → 5

total → 15 → This will return in Global Execution.

result2 के लिए we have to do it again means system do that.



Repeat this process. And Delete After Execution.

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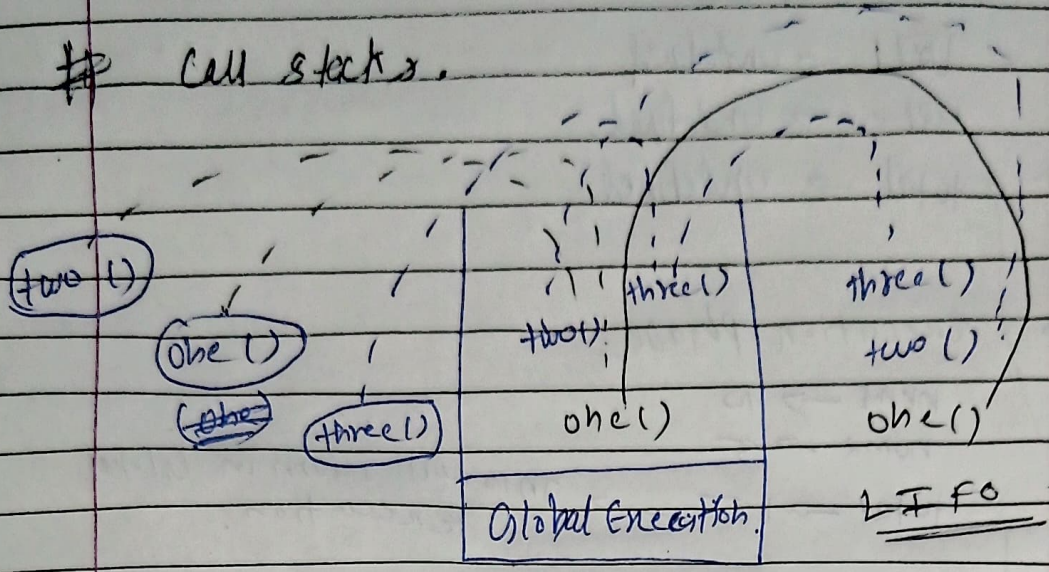
Call stacks.



The complexity occurs when we call multiple functions at a same time so here comes a LIFO execution. The last function will execute first.