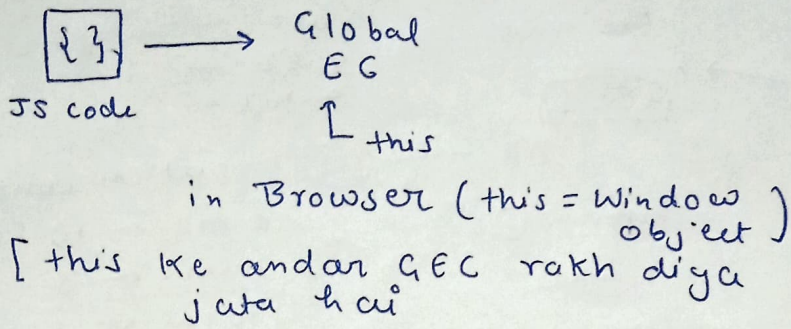


Java Execution Context

- JS runs your program in two phase



JS have 3 EC
(2 mainly)

- ↳ Global EC
- ↳ function EC
- ↳ eval EC

- JS is single threaded
- The two phases are
 - Memory Creation Phase (allocate Mem)
 - execution Phase

```
eg
let val1 = 10
let val2 = 3

function addNum (Num1, Num2) {
    let total = num1 + num2
    return total
}

let result1 = addNum (val1, val2)
let result2 = addNum (10, 2)
```

① → runs thru. → Global Execution

↑ allocate at this

② Memory Phase

val1 \rightarrow undefined, val2 \rightarrow ud, \therefore
addNum \rightarrow defination
result1 \rightarrow ud, result2 \rightarrow ud

③ Execution Phase

val1 \leftarrow 10, val2 \leftarrow 3, [func address \rightarrow kuch nahi hogi]

But when results call hog a to h

add Num \rightarrow

new execution of
context \rightarrow called

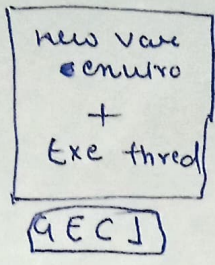
new variable
Environment
+
Execution
Thread

jitni Baar func call
honge utni baar yeh
Box Create hoga

as ③ Execution Phase

val1 ← 10 , val2 ← 3

add Num →



③ Memory Phase
val1 → undefined
val2 → ""
total → ""

③.2 Execution Context
num1 ← 10
num2 ← 3

total ← 13

Return to ①

Delete

this total is return to its parent executional context

[Bola jata hai ki Global execution context mein return krta h]

Now GEC1 → Deleted

result 1 ← 13

; Now again for result 2

add Num →



M Phase

GEC

result 2 ← 12 ;

Call Stack

let func one() {

func two() {

func three() {

} }

in stack it works as

