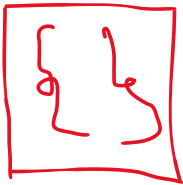# JS Execute

Saturday, July 1, 2023   1:21 AM

JavaScript execution Context

- Global execution Context
- Function Execution Context
- Eval Execution Context   --> x

- Memory Execution Phase
- Execution Phase

```
14    let val1 = 10
15    let val2 = 5
16
17 ∨ function addNum(num1,num2){
18        let total = num1 + num2
19        return total
20    }
21
22    let result1 = addNum(val1,val2)
23    let result2 = addNum(10,2)
```

1- Global Execution
2- Memory Phase
    - val1 --> undefined
    - val2 --> undefined
    - addNum --> defination
    - result1 --> undefined
    - result2 -->undefined

First diagram

① → Global Execution
↓
this

② Memory Phase

Val1 → undefined
Val2 → undefined
addnum → defination
result 1 → undefined
result 2 → undefined

```
1   let val1 = 10
2   let val2 = 5
3   function addNum(num1, num2){
4       let total = num1 +num2
5       return total
6   }
7   let result1 = addNum(val1, val2)
8   let result2 = addNum(10, 2)
```

③ Execution Phase

val1 ← 10
val2 ← 5
add Num ⟶

new variable
environment
+
Execution
thread

Second diagram

① → Global Execution
↓
this

② Memory Phase

Val1 → undefined
Val2 → undefined
addnum → defination
result 1 → undefined
result 2 → undefined

```
1   let val1 = 10
2   let val2 = 5
3   function addNum(num1, num2){
4       let total = num1 +num2
5       return total
6   }
7   let result1 = addNum(val1, val2)
8   let result2 = addNum(10, 2)
```

③ Execution Phase

val1 ← 10
val2 ← 5
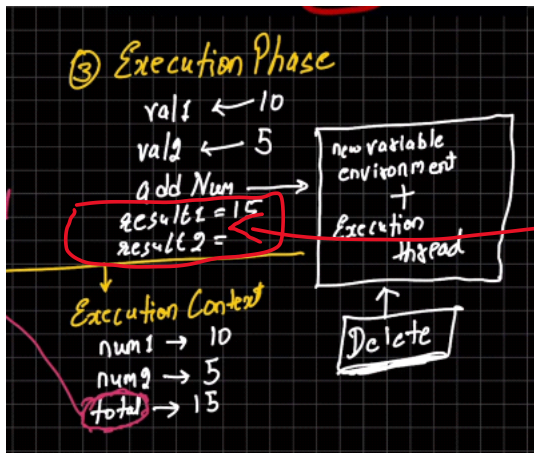add Num ⟶
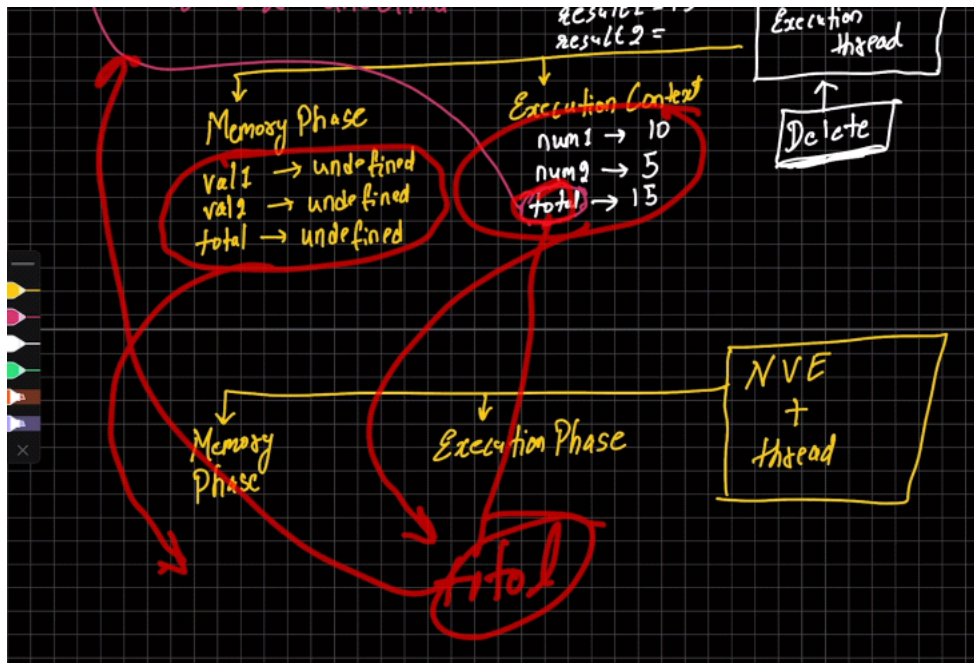
new variable
environment
+
Execution
thread

Memory Phase

Val1 → undefined
val2 → undefined
total → undefined

Execution Context
num1 → 10
num2 → 5
total → 15

Delete

③ Execution Phase
val1 ← 10
val2 ← 5
add Num →
result1 = 15
result2 =

new variable environment
+
Execution thread

— Output

Execution Context
num1 → 10
num2 → 5
total → 15

Delete

result2 =
Execution thread

Memory Phase
val1 → undefined
val2 → undefined
total → undefined

Execution Context
num1 → 10
num2 → 5
total → 15

Delete

Memory Phase

Execution Phase

NVE
+
thread

total

Same thing will repeat for result2