

JS

Last Week :-

- 1) ✓ Variable Declⁿ :- var, let, const
- 2) ✓ Hoisting, - variable / funⁿ
- 3) ✓ execution context → ~~the~~ memory allocation phase
execution phase
- 4) ✓ call stack
- 5) ✓ data types :-

primitive type	Number String boolean bigint null undefined symbol	Non primitive data type	⇒ object
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- 6) operators
- 7) git hub → use, how to use

8) Functions:-

Type to define :-

- 1) Funⁿ declⁿ —
- 2) Funⁿ Expression —
- 3) Anonymous funⁿ —
- 4) IIFE →
- 5) arrow funⁿ

} calling funⁿ statement
to call the funⁿ

9) Funⁿ Hoisting ⇒ We call the funⁿ before it's defn →

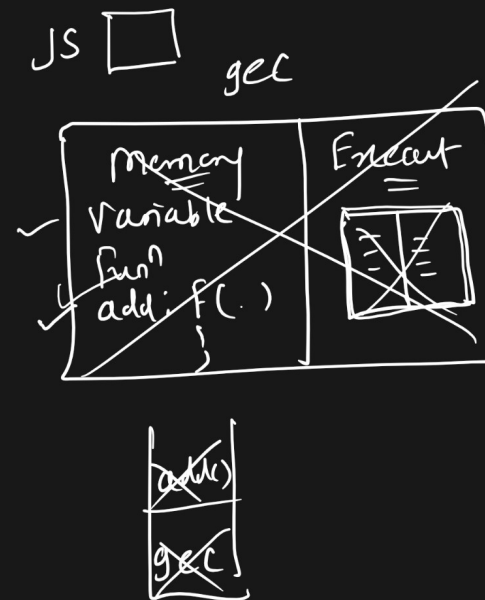
→ add(10, 12) ↓ ✓

function add(a, b)

{

}

}



Types of function (Refer → ^{Folder} 23/9 → higher order funⁿ & call back funⁿ sub folder)

Higher Order Funⁿ & Call Back Function

Higher Order Funⁿ :-

Whichever the funⁿ accept the funⁿ as a parameter or any funⁿ return as a funⁿ that funⁿ we called as higher order funⁿ

Call back funⁿ :-

whichever the funⁿ we passed as a argument to any funⁿ then that funⁿ we called as call back funⁿ.

o/p → from high order funⁿ
 ↖
 counter()

```
function counter()
{
  ✓ console.log('From higher order function')
  - let count=0
  → return counterdisplay(count)
}

function counterdisplay(count)
{
  count++
  console.log(count)
}

counter()
```

```

function counter - ( )
{
  ✓ clog ( ' From higher order fun' )
  return counterdisplay
}

```

```

function counterdisplay ( )
{
  clog ( ' From counter display' );
}

```

counter ()

```

let result = function counterdisplay ( )
{
  }
}
c.log ( result )

```

counter ()
↓ call

✓ o/p → From higher order fun?

✓ Consider. log (counter ())

return value display
fun? → counterdisplay

let result = counter ()

result ⇒ fun? counterdisplay

c.log (result)

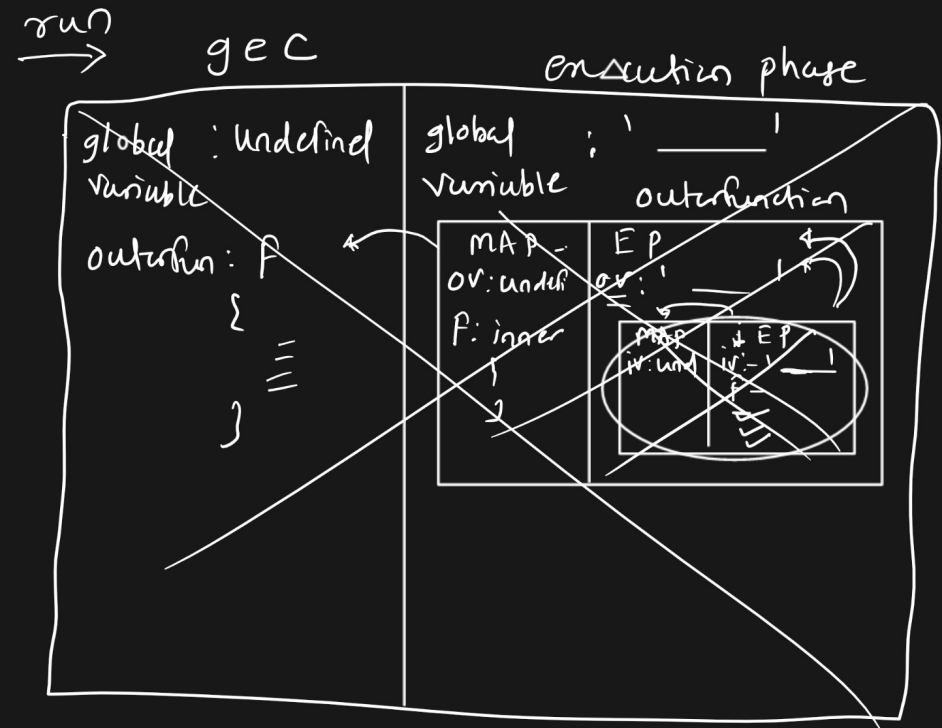
Type of Scope

- ✓ 1) global scope - var variable & funⁿ
- ✓ 2) block scope → { } → let variable
- ✓ 3) local scope → funⁿ { - } → local scope
- ✓ 4) script scope → let, const →
- 5) lexical scope

```
let globalvariable='I am script / global variable variable'

function outerfunction()
{
  ✓ let outervariable='I am outer variable'
  console.log('From outer function');
  console.log(outervariable)
  ✓ function innerfunction()
  {
    ✓ let innervariable='I am inner type of variable'
    ✓ console.log('from inner function');
    ✓ console.log(innervariable)
    ✓ console.log(outervariable)
    console.log(globalvariable)
  }
  ✓ innerfunction()
}

→ outerfunction()
```



Lexical Scope:- When a funⁿ is created inside the another funⁿ, the inner funⁿ can access variables from the outer funⁿ scope (and even further out to the global scope)

Closure:- when a funⁿ is created inside the another funⁿ and allowing to inner funⁿ to access variables from the outer funⁿ scope, even after the outer funⁿ has finished their execution.