Namaste JS

Ep-2

What happens when you Run a JS Code ?

At execution Content is Created.

Created in Two Phases.

- Memory Creation Phase
- Code Execution Phase

Lets See How the Code works !

```
var n =2;
function square (num) {
    var ans = num * num;
    return ans;
}
var square2 = square(n);
var square4 = square(4);
```

Variable · Function · Variable · Function · Function

Memory (Phase-1)	Code (Phase-2)
n : ~~undefined~~ 2	
square : { ... } (a new execution Content is Created.)	
square2 : ~~undefined~~ 4	
square4 : ~~undefined~~ 7	

Memory	Code
num : ~~undefined~~ 2	(num x num)
ans : ~~undefined~~ 4	

Memory	Code
num : ~~undefined~~ 4	(num x num)
ans : ~~undefined~~ 16	

Line By Line Code Ko execute krta fir aur values allocate krta hai.

Line By Line execute hota Hai aur Memory allocate Hota Hai.

When it allocates Memory to n, it stores a special value which is known as Undefined.

Variable

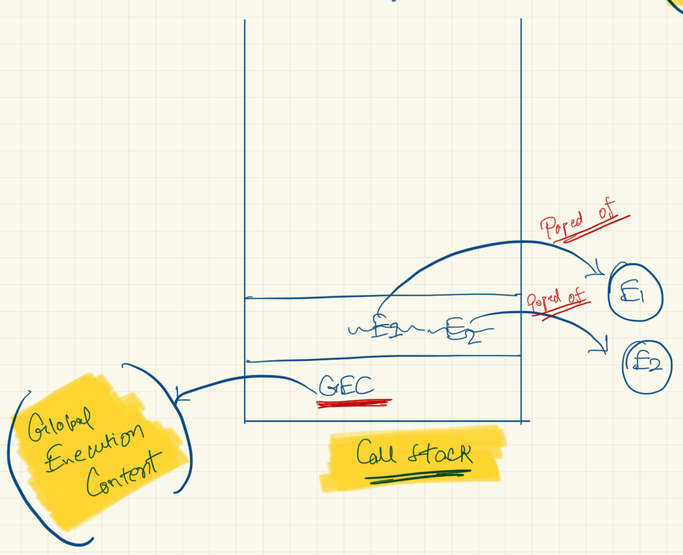
When it allocates Memory to square, it stores the whole function Code (literally).

Function

After the succesfull execution of execution Content is being Deleted.

Note → Whenever a Function Call happens a new Execution Content is Created.

Call Stack → Maintains the Order of Execution of Execution Contents.



Call Stack is also know as :-

1. Execution Content Stack
2. Program Stack
3. Control Stack
4. Runtime Stack
5. Machine Stack.

All are Same

Imp Words and Concepts

1. Call Stack.
2. Global Execution Content.
3. Execution Content ≠ Global Execution Content.