








Day 08 Notes

 Key Takeaway	Executions Context, Call Stack
 Learning Date	@July 2, 2025
 Module	Module 2: Deep Dive into Functions & Objects
 Status	Done
 Topic	 Day 8: Execution Context & Call Stack (<i>How JavaScript runs your code!</i>)
 Video Link	https://www.youtube.com/watch?v=yIx5F7hbzVQ

Execution Context :

Lexical Environment or Scope : <https://medium.com/@mohd talib.dev/lexical-environment-in-javascript-a2112b78a3cb>

Global Execution Context (GEC)

Creation phase

1. Window object
2. This keyword
3. Window === this

```
var name = "Tom";  
  
function sayName() {
```

```
console.log(this.name);  
}
```

4. Allocated memory for the variable and function sayName()
5. Name will be initialized to undefined
6. The function body will be placed directly into memory

Execution Phase

1. It will assign the value 'Tom' to the variable name

Function Execution Context(FEC)

```
var name = 'Tom';

function tom() {
  console.log(this.name + ' Runs');
}

// Invoke the function tom()
tom();
```

GEC

Creation Phase

name: undefined
tom(): allocated in memory

Execution Phase

name: "Tom"
tom: Execute

FEC(For tom())

Creation Phase

Execution Phase: log() from console

FEC(for log() from console)

creation phase
execution phase

```
console.log("Inside Global Execution Context");
var a = 5;
function testMe() {
  console.log("Inside testMe Execution context");
}
```

```
var b = 10;
var user = {
  name: "tapas",
  country: "India",
};
function testAgain() {
  console.log("Inside testAgain Execution Context");
  console.log("Exeitin testAgain Execution Context");
}
testAgain();
console.log("Exiting testMe execution context");
}
testMe();
console.log("Exiting testme execution context");
```

Global Execution Context(GEC)

CP(Creation phase):

a:
testMe:located in the memory

EP: a : 5
testMe() : execute

FEC :

CP:

b:
user:
testAgain(): located in memory

EP:

b: 10
user = { Name: 'tapas',
country : 'India'}
testAgain(): located in memory

FEC :

CP:

EP:

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