JavaScript Execution Context Notes

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// Jab koi JS likhte hai to ek Global Execution Context banta hai
// JS single-threaded hai
// Two types of Execution Contexts:
// 1. Global Execution Context
// 2. Functional Execution Context
// In dono phase ke completion ke baad niche wale phase run hote hai
// Code do phase me chalta hai:
// 1. Memory Creation Phase
// 2. Execution Phase
// Browser ke andar 'this' ka value window object hota hai
// Iss code se sikhenge kaise code run hota JS me
let num1 = 10;
let num2 = 5;
const sum = function(num1, num2) {
return num1 + num2;
}
let result1 = sum(num1, num2);
let result2 = sum(19, 20);
// Step-by-step Explanation:
1. Global Execution Context create hota hai, jisme 'this' ka value window object hota hai.
2. Memory Allocation Phase:
- num1, num2 => undefined
- sum => function definition stored
- result1, result2 => undefined
```

- 3. Execution Phase:
- num1 = 10, num2 = 5 assign hota hai
- result1 execute hota hai => sum function call hota hai
- 4. Function Execution Context create hota hai:
- Memory Phase: num1, num2 (parameters) => undefined
- Execution Phase: arguments pass hota hai (num1 = 10, num2 = 5)
- return value => result1 me assign
- 5. Same process for result2 with new Function Execution Context

Execution Context Diagram (Illustrative)

[Global Execution Context]	
this -> window	1
num1 -> undefined	1
num2 -> undefined	I
sum -> function definition	1
result1 -> undefined	I
result2 -> undefined	I
-> Execution Phase Starts	
num1 = 10	
num2 = 5	
result1 = sum(10, 5)	
=> [Function Execution Contex	xt - sum()]
Arguments: num1 = 10, num2	2 = 5
Return: 15	

Same for result2 with values 19 and 20.