

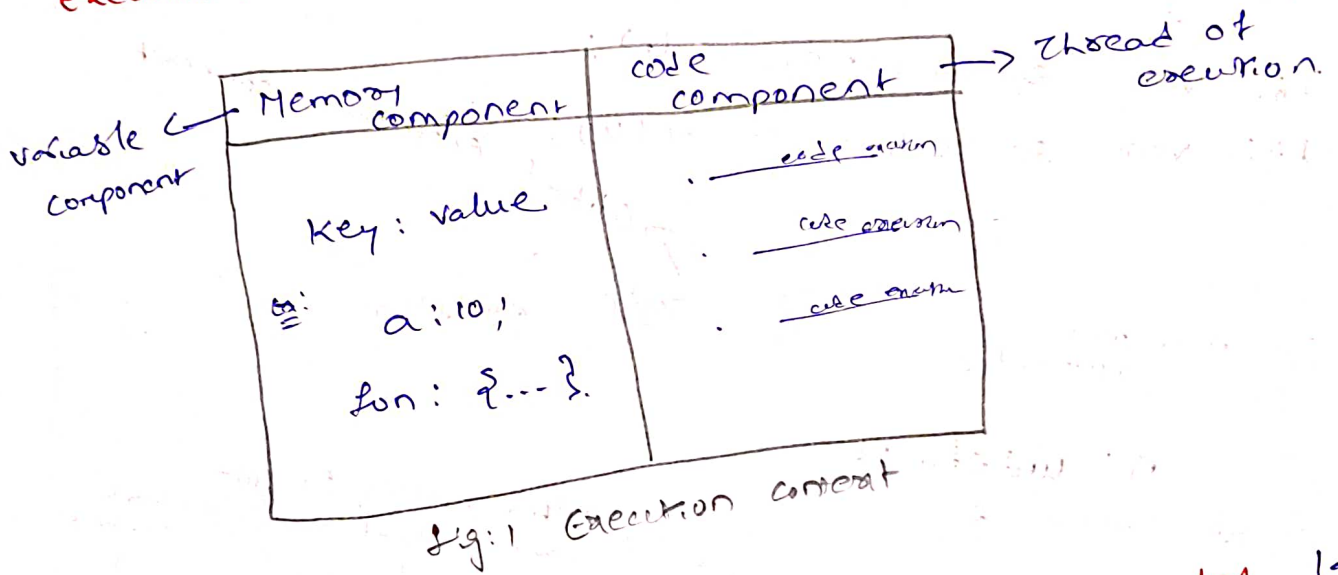
Date: 01/01/2024

DAY 1 - JAVASCRIPT

#100 Days of code

Execution context :

Everything in Javascript happens inside an Execution context.



JavaScript is a synchronous single-threaded language.

Execution context is created ~~in~~ ⁱⁿ 2 phases.

1. memory allocation phase
2. code execution phase.

When the code execution is started JS engine creates a global Execution context.

For every function invocation a local execution context is created.

code:

L1: Var n = 2;

L2: function square(num) {

L3: Var ans = num * num;

L4: return ans;

L5: }

L6: var square2 = square(n);

L7: var square4 = square(4);

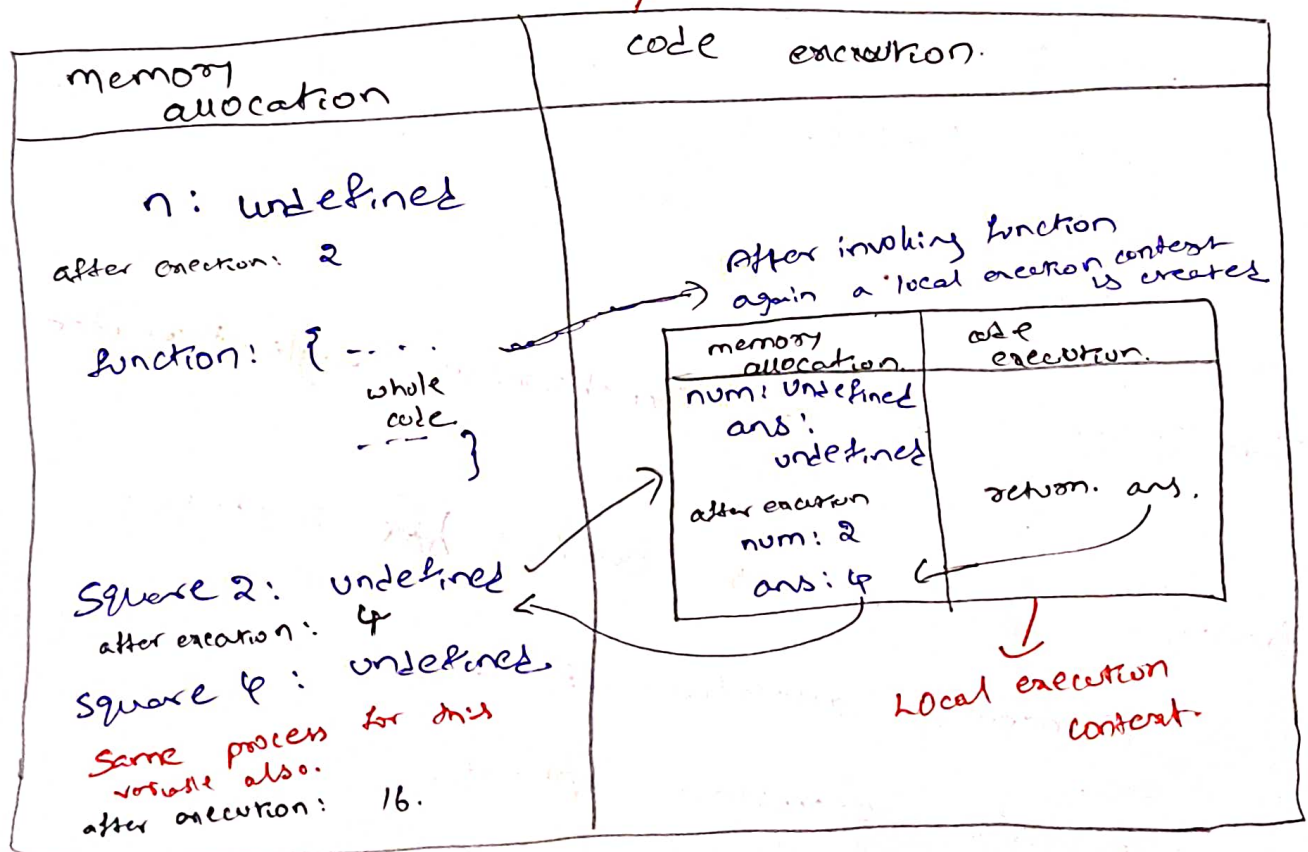


Fig 2: Execution context.

• JavaScript controls these type of complex executions through a **call stack**.

• Callstack maintains the order of execution of execution contexts.

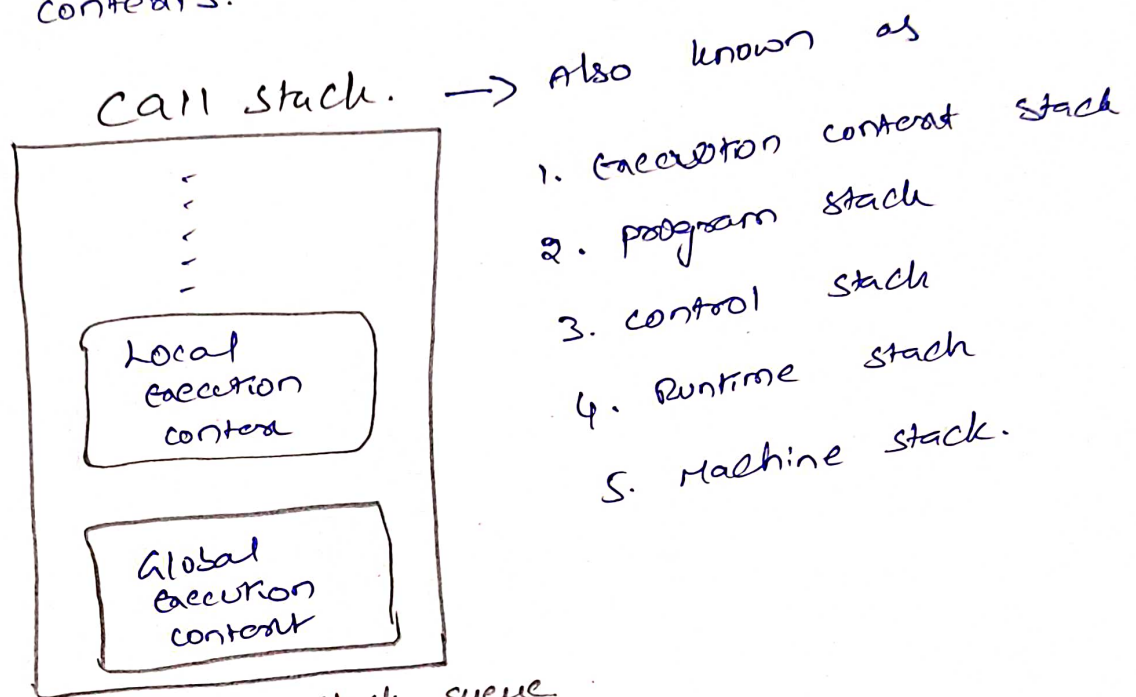


fig 3: call stack structure

• After all the code execution is completed the callstack becomes empty.