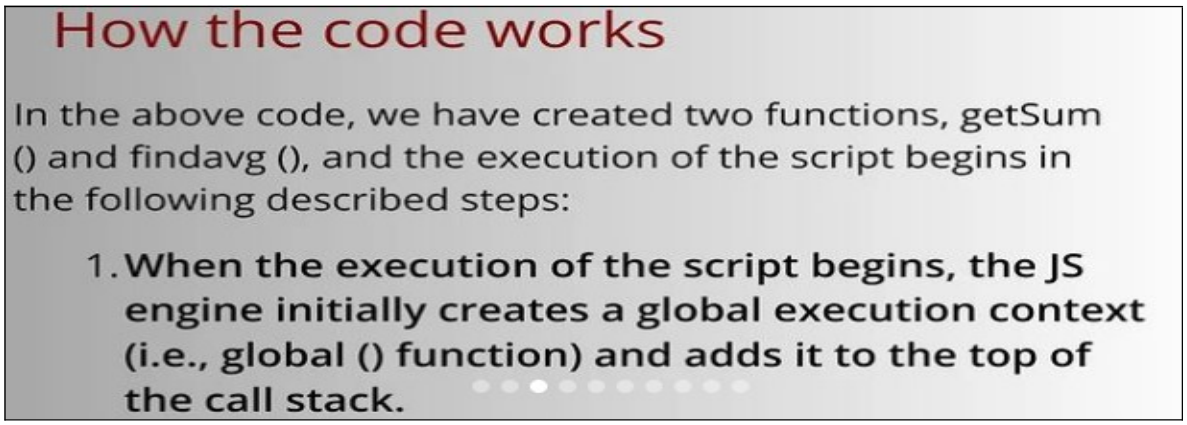
JAVASCRIPT CALL STACK - EXECUTATION CONTEXT

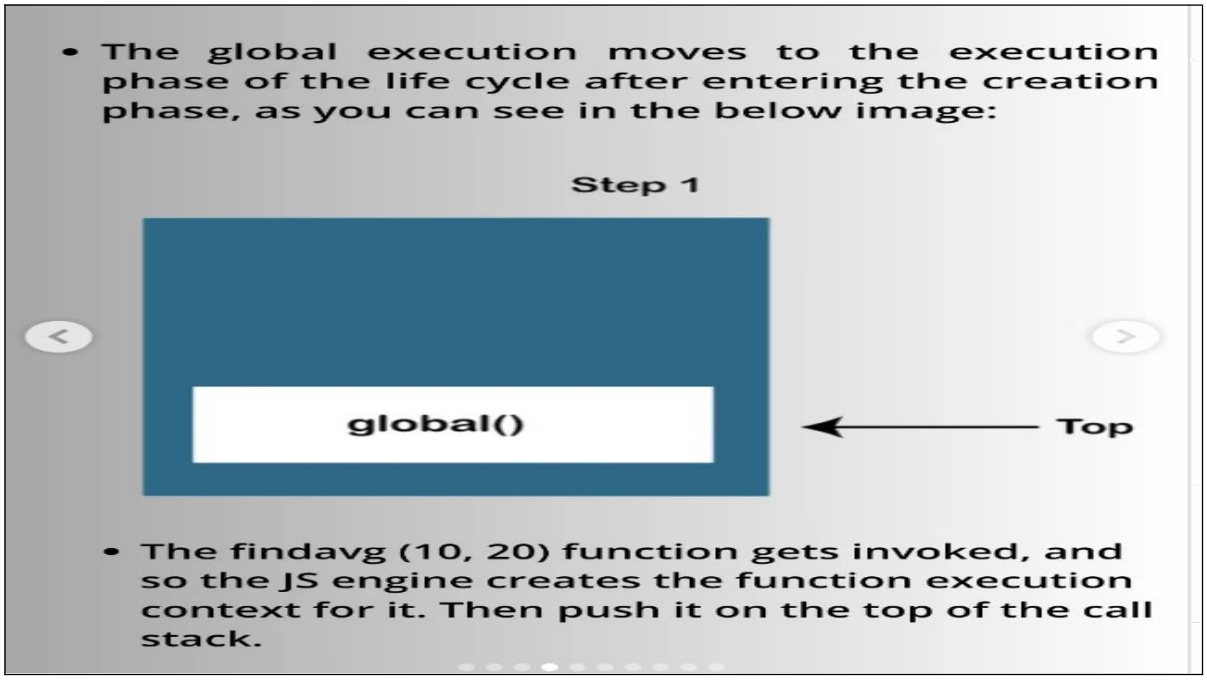
JS Contexts :-
Global Execution Context and Function Execuation Context
They are executed via JS Engine.

Manage JS Contexts:-
In order to manage it, JS uses Call Stack.

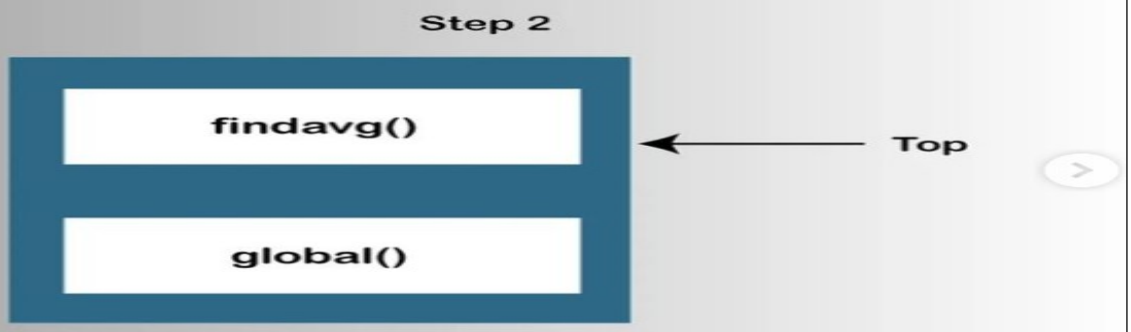
Call Stack:-
It is a data structure that keep track information of the functions being called and executed.

How Code works:-

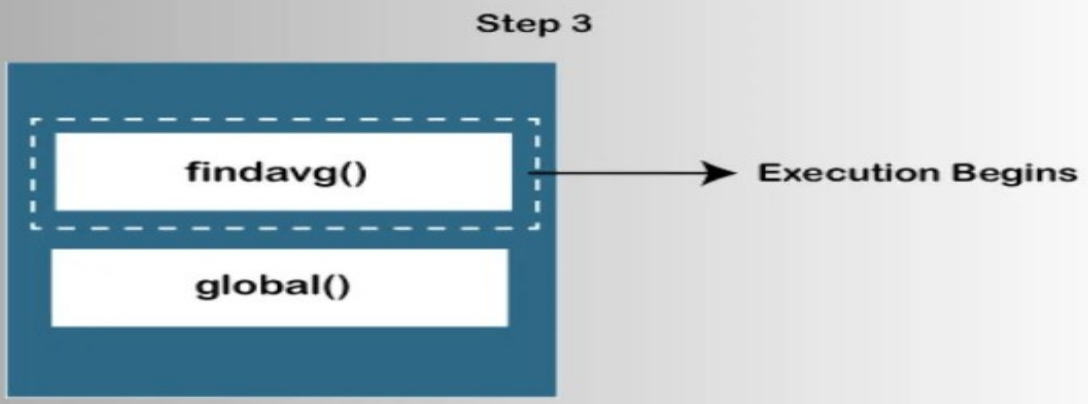




- So, now in the call stack, two functions are pushed, i.e., global () and findavg(), and on the top of the stack, the findavg() function is present, as you can see in the below image:



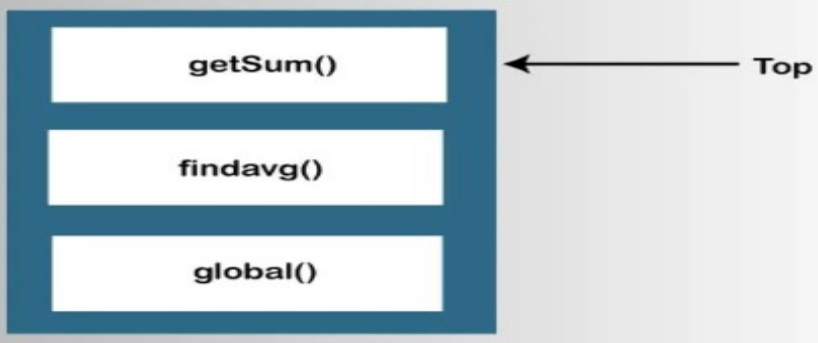
- The JS engine begins the execution of the findavg () function because it exists on the top of the stack, as you can see in the image:



- As in the code, the getSum () function is invoked inside the findavg () function definition, so the JS engine creates a function execution context for the getSum () function and pushes it on the top of the stack.

- Now, in the stack, there are three functions present, which are global (), findavg (), and getSum () functions, as you can see in the below image:

Step 4

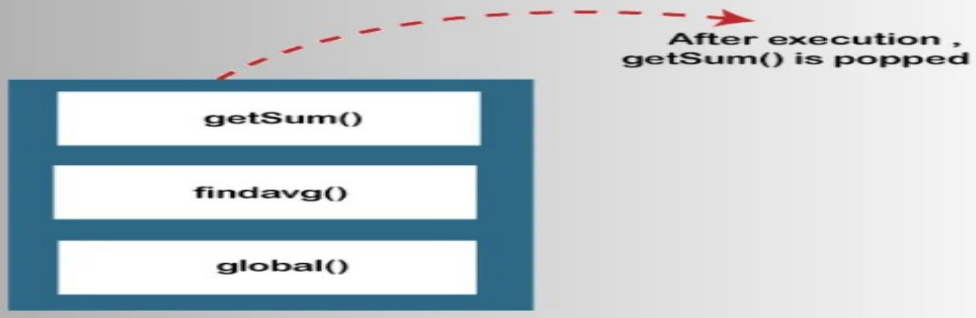


There are two functional execution contexts and a global execution context as you can see below:

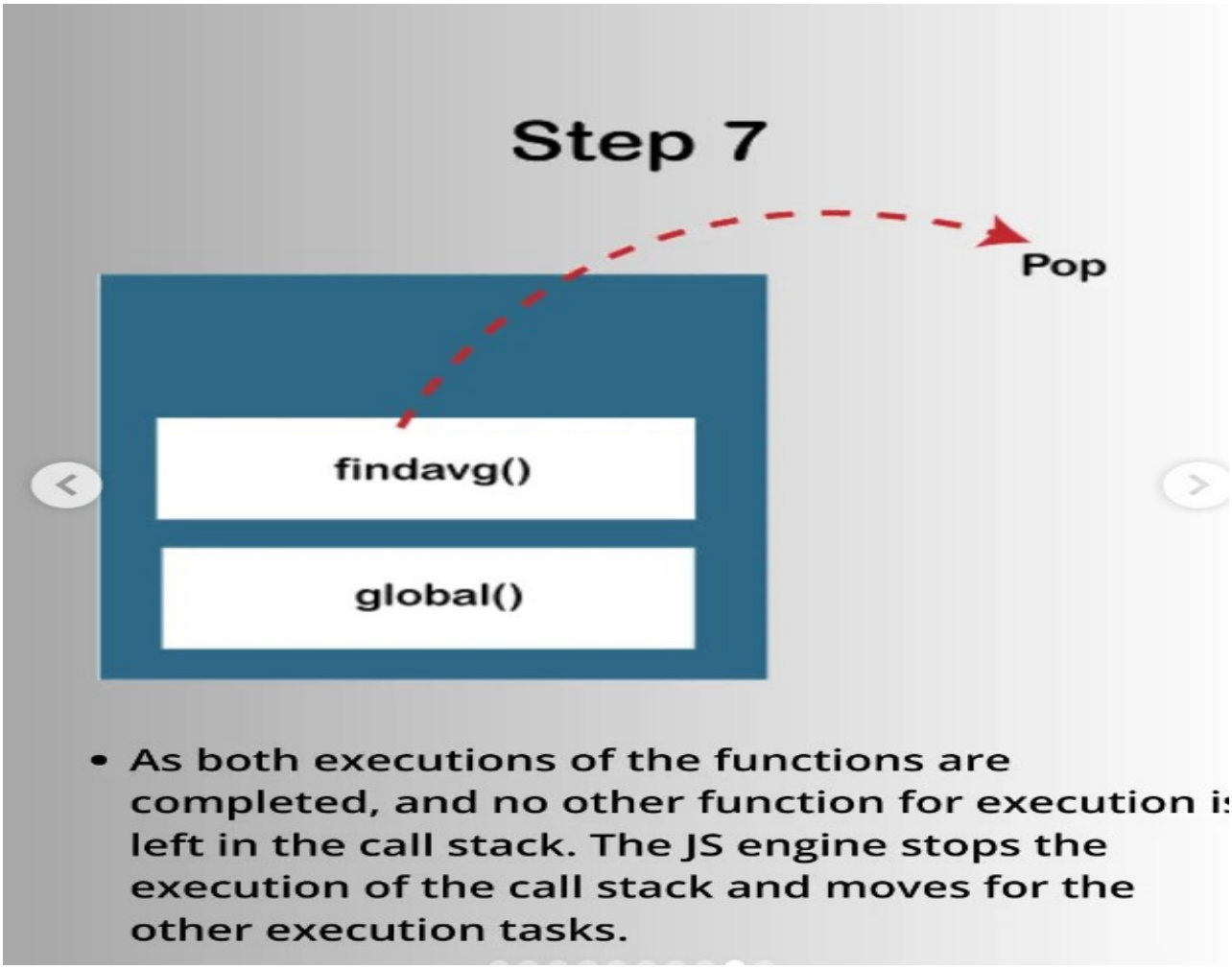
Step 5

- So, the JS engine executes the getSum () function first and pops it out of the call stack.

Step 6



- Similarly, the findavg () function gets executed and gets out of the call stack.


Step 7
Pop
findavg()
global()
As both executions of the functions are completed, and no other function for execution is left in the call stack. The JS engine stops the execution of the call stack and moves for the other execution tasks.