* Scope:-

Scope means where we can access a specific variable & function in own code.

Scope in Java Script is directly related to Lexical Environment

> Can we access b inside a? Example: -Here Is will try to find out if b'exsits in the local memory space of a () or function a () { console. log (b); -> & it won't be there . So what it will print?

Tt means somehow

inside the frac). The b

is able to acess the

b which is outside the Vay b = 10; ac);

Here we are putting another f' () inside a() so trying to access b. $\rightarrow olp: -10$ function a() {

function c() ; Console. log (b); Vaub = 10; a();

It means even inside the f" which is inside another for which is inside the

Gilobal Scope, we can access b?

Example 3: - We are checking here is vice versa true? Can we still acess binside c()?

function al) { Nou b = 10; cc); function c(){ Console log (b); Jac);

→ 0/p:-10.

Example (4): - Here we are checking oan we access & outside the fr.

function a()? Vay b= 10; cc); function COG 3 acr; console. log (b);

-> Olp: -> b is not defined.

the Chenevan on Execution Contest is create lex cal solve among is the local many

-> Here comes the scope into the picture.

in our code.

→ There are 2 respects to it.

1st What is the scope of the variable b!?

Cire. Where we can access this variable b).

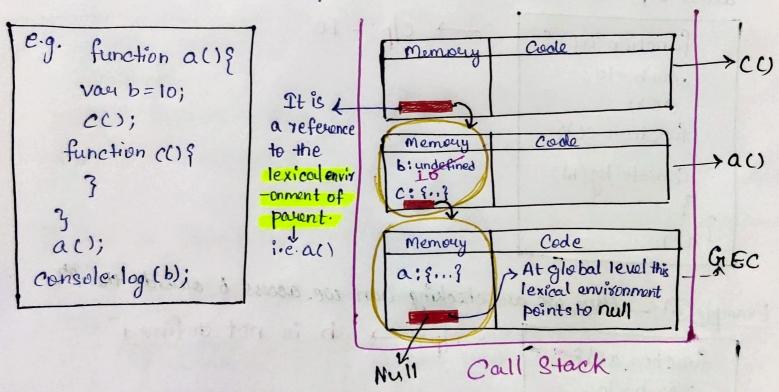
2nd Is b' inside the scope of fh c?

Cire. Can I access this b inside o.)

These are one 8, the same thing. Just asking in different ways.

9. What is Lexical Environment?

-> We will going to leave what is kxical Environment with the help of visual surpresentation.



Whenever on Execution context is created, a lexical environment is created.

of its pavent. { Lexical memory along with the lexical environment

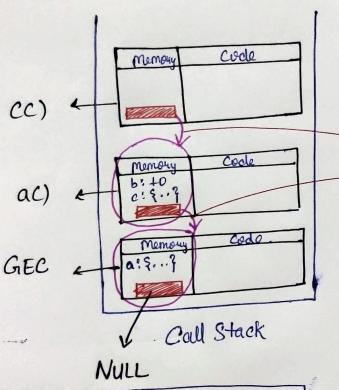
e.g. Above program.

—> We can say c() is lexically sitting inside a().

i.e. Lexical Environment = local memory + lexical Environment of payent.

Que: What is Scope Chain?

Scope chain is nothing but the way of finding i.e. the chain of all the environment & the parent deferences.



The Js Engine first seauches for a variable in the enruent Local memory space, if its not found here it seauches for the variable in the lexical environment of its parent, until the Variable is found in some lexical environment or the lexical environment or the lexical environment or the

Those whole choin of lexical renvironments is known as Scope CHAIN.

So it defines whether a vouiable on fite function is present inside the scope on no. If the scope chain is exhausted

It means vauiable is not inside the Scope chain.