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	O	AUASCRIPT	MORKING		
		Script & It s			
				ite one Command at	
	Eve	oution conte	ava Script ha	ppens inside the	
	EN	ecution Contex	+ Structure	0 -	
Everyth	ing	Memory a: 40 Jun: & 3	Code	also known as Thread of Execution	
Memori stored	100		0	a Part in which whole code is	
Key-vo	Memory: Also known as Uniable environment code at Also known as Thread of execution.				
		hen we run contain			
	Ex	ecution Conta	x+ is create	0,	

				-ode
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Ex Code:

Vay n=2;

function Square (num)

seturn num*num;

3

Var Square 2 = Square (2);

Var Square 4 = Square (4)

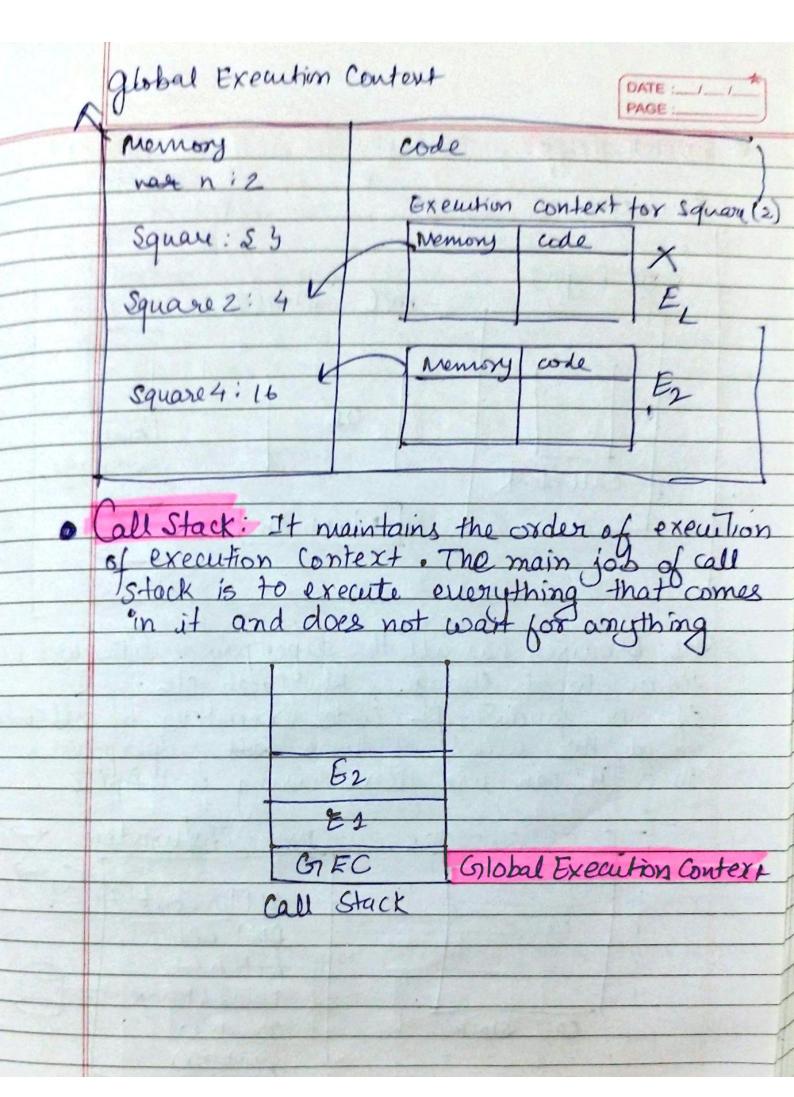
Phase 1:- In Menrory phase Greation, it allocates
Nemory for avariable and assigned them undefind
and for functions it stores the whole code.

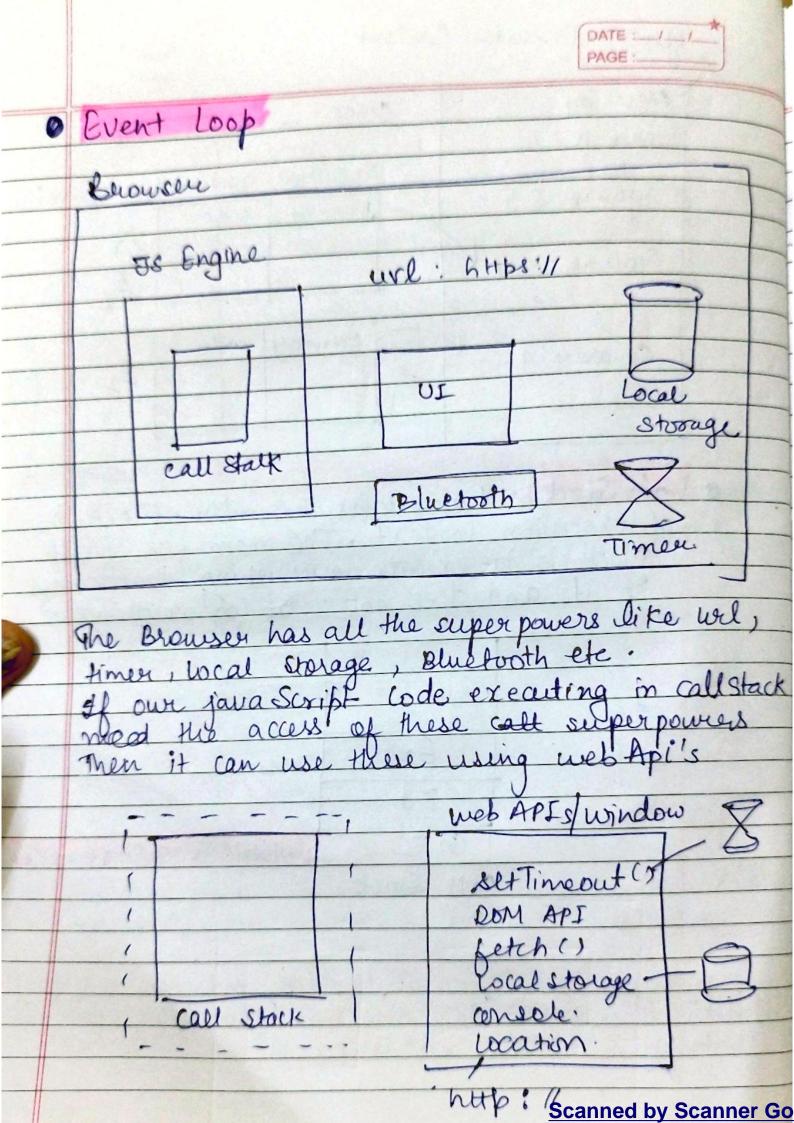
Execution	Memory	Code
Context	n: undefined	
WIGERI	0	
	Square: & 3	
7 100000	Square 2: under	
	square 2: undef	250 30
	1	

That 28-Code Execution Phase.

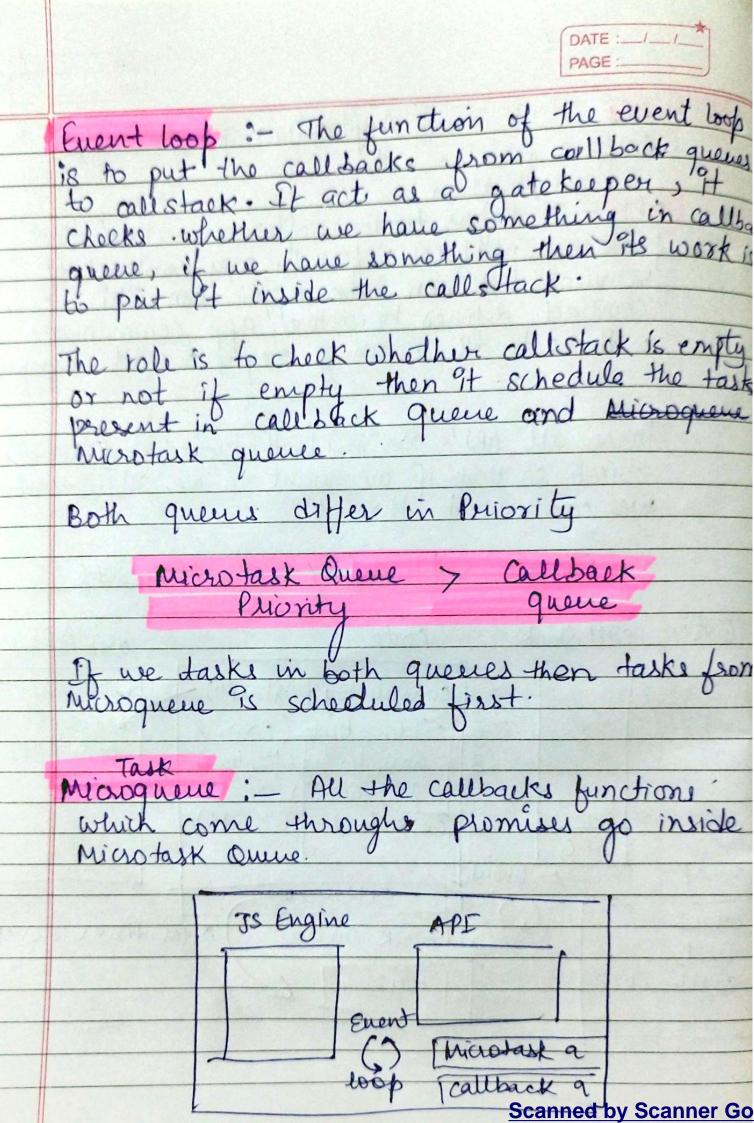
In this phase Java Script code is again our and variables are assigned there values.

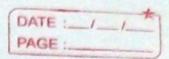
New execution context is created for every function call. And once the function is completed or finished its execution context is deleted.





	P	ATE :/_ /_				
Ne	hAPI: It is an Application program	mining				
i	nterface for the web.					
	capplication					
	AVI:- A REFORS TO THE SOFTWARE WITH	h distinct				
	API:- A Refors to the software with distinct function. Inteface refers to any contract of services between two application. This contract defines how two app communicate with each other using acquests and response					
	services between two application. This					
	contract defines now two app communicate					
	with each other using sequests as	nd response				
	These all API's are inside the window	o (global)				
	These all API's are inside the window (global) object so that if we want to we setTimeout we can use it through					
	we can use it through	SASAN .				
	window setTimeout () = setTime	eout()				
r						
Eri.	call Stack code	web API's				
	Course los la Charles	> set Tineout				
	Console log ("Start")	Console				
	Set Tinebut (1)=>\$/	DOM APIS				
	8 (unsolv log (''Callback')	fetch				
STEE A	3 3,5000);	face				
	GEC Corsole log ("End")	,				
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Start	Callbert -					
End		finer is one				
calle						
	all back L	Towns and the second				





Borouser Can Run java-Script Code belauxis Node js -> Javasnipt Runtime Environment JS Engine code Parsing (code Broken down into tokens

L AST (Abstract syntax tree)

Compilation

(JIT Compiler)

Execution Working of J.S Engine Interpreter Compiler Executes code line by Compiler first translates the code from high level language into a machine Executes the vode written colle and then own / Executes in high level language to machine code line by line the code Fast Efficient

Scanned by Scanner Go

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-	Java Script can Run act as Interpreted and compiler language, Its behaviour dependion Java Script Engine.
	Tain Script can Run act as interpreted and
	compiler language, Els behaviour dependion
	Java Suript Engind.
4	Garbage Collectors: Posice to free up space of collect garbage & sweeps it
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