

Java Script -Everything in Js happens inside on "Execution content." Execution Content - is like big box - 2 components in it Memory Code (Theread of Execution)

(All the variable & fr & Coole is enecuted one one store as a key: value line at a time?

Pairs) Variable Environment our stone as a key: value Key: value : ... fn: {...} Js is a synchronous threaded language. Single threaded - Executes one command at a time Synchronous Single threeaded - JS enecutes one command at a time, and in a specific order. specific ouder. i.e. It can only go to the next line once the current line has been finished executing.



						Page	
	P	How J	rs is e	executed	?		
		Exe	cution /	content	isc	reated in	
Execution content is created in							
,							
Memory						Code	
		Memory Sucation phase				Execution	
	-	(Critical phase phase					
phase						Prose	
		It allocates momeny					
		to all	the variable	and			
		functions.			*	•	
		1		· ·		1	
	Glo	pal Execu	tion Content	-			
	M	emouy	Co	de	Ì	Example: -	
	_	20,00		111.	1.	Chargie	
	η;	undefined	Memory	Code		Vay n = 2;	
		n:2(2"phase)	Num; Undefin	num:2		function square (num)	
1	Squ	we: { }	ans: Under	numx num)		Var ans = num * num.	
			ans: 4	evetuin ans		return ans;	
2.44	Squ	vara 2: K		- With will	· 1.15	3	
	1	undefined,	After sotus	ining the value	`\	Nov square 2 = sayayar	
	Squ	ave 4: (4)	the execution	ontextwillbe		(Non Square 2 = square(6)	
		undefined	~.~	70,740			
`		C16) 1	memory	Code	V.		
			num: andefine	numxnum	1	function in vocation	
			ans: undefine	Yetwin ans			
	1		ans: 16	ic will ans			



	allocates Special						
	Undefined: Basically stone the value no "undefined" for to it.						
	to it.						
	Square fr — It will have the whole code incide it						
	Tt will have the whole code mister						
	Square fr — It will have the whole code incide it (i.e. code incide Oxange circle)						
	Metach the control of the program, to						
	Retween — scetain the control of the perogram, to the place where it this function was invoked.						
	Invo Ked.						
Nole:-	Once the tree of the whole alobal						
14014 6	Execution content will be deleted.						
	execution content will be deleted.						
_	Js has its own Call Stack						
	15 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	This GEC is poped up when program is finished						
	A THISTER						
	> Whole Grobal Execution Content						
	GEC is pushed inside this Stack						
\hookrightarrow	Call Stack maintains the order of execution of						
	execution content.						
→							
	Proguam Stack						
	Control Stack						
	Runtimo Stack						
	Marking stack.						
	, incrure start.						