		Lectu	11902AVA	Page No	M				
- W				al matter of the					
	How JS is executed a Call Stack								
	When a 18 program is executed, a global execution context is evented								
d of Extende	S Hay	10		all deline	H				
	H. H.	Memory a	eationphase	Code execution phone	1				
make there	Sherry L	Memory a → allocationy men	vory to variable	→ execute code one line	1				
andyd	é junctions at a time.								
		V	THE PERSON	STATE OF THE STATE					
	<u>6×</u>								
	Vaτ n = 2 ;								
	Junchim square (num) {								
The second secon		var ans = num							
a la ust utilizati à	15/3 (0.3315) (0.3	return ons;	- 9 tepas	id in a straight					
		3							
in their facini									
	var eguare 4 = Equare (4);								
	het's see how this program is executed in 75								
	1st Phase:								
	In line	1, it allocates me	mory space for n	, then (Stores undefined)					
	2, jor junction (stores whole code of pur								
	2, jor junction (stores whole code of pure) 6,7, it allocates memory variable square 2, square 4								
	B. Cork		and stores und	chined.					
					6				
		Memory	Code		6				
	20	: undyined							
		uan: 2 3			-				
	1000	Square 2: undefined							
	Iguare 4: undefined								
	17			A STATE OF THE STA					
					0				

				THE RESERVE OF THE PERSON NAMED IN					
3				Page No					
19	2nd phone	2nd phase it starts going through line by line.							
3		The state of the s							
2	line 1, ass	line 1, assigne 2 to on.							
7	ros junctions,	there are nothing;	to execute as these line	u were already dealt in					
1	- goda	For Junctions, there are nothing to execute as these lines were already dealt in memory creation phase.							
	Lene 6, When	line 6, When a junction is called a new execution context is created Hogether.							
2	101 this new	In this new execution context in mcp, allocated memory to num and and							
3		placing undefined.							
-		In coole execution phase, 2 is assigned to num.							
-	" " "	Vau ans = num * num store 4							
2	return ans g	"return ans" gives the control back to where this function wastavoked from i.e. line.							
2	Now '9' will no	eplace undefined in s	Main memory black of e	recution					
-		T. Sant Con	ud ed 27045/107 23	212 feet 112					
-	batterst continu	Memory	Code						
	- Interior	VALLET OF THE	Eleck	Call					
TO IA			Memory Code						
7	Managamen my	quarel:4	bons:4	Man X 3					
No.	233 -	Equare 4: unologi L	ans	sold from					
		, nea							
16161	al of Transmodi	E completed texas	son of this function i	physics execut					
a did	When return k	ceyword is encoun	fend, It returns the	control to the called line					
	and	0							
To VA	the junction execution context is deluted.								
-	Same steps will	be repeated for liv	ne7	Francisco					
9	279	5.39		Carri Carriol					
7		Memory	Code						
		n:2	Memory wee	When execution context is					
- Uso	Deli Cert	Equare: { 3	rum:2 return	deleted for line 7					
		Syune 21 8 4	ars: A ars	por 16 for square 4					
	1337		Memory Code	(6 0 1					
		Equal 4!	num: 4 returnary						
2 476 81									

Page No Date							
If there function inside function and another function. It will become	If there function inside function and another function. It will become						
difficult to handle and keep track of.	If there function inside function and another function. It will become difficult to handle and keep track of.						
But JS does it beautifully using call stack.	But JS does it beautifully using call stack.						
on their all hills says sand weather to have been a state of the state of the state of the	and a sorry card grade as the art of printers a property benefit as the grade place						
CALL STACK							
* JS manages code execution context and deletion with the help of Call stack.							
* mechanism to keep track of its place in script that calls multiple	mechanism to keep track of its place in script that calls multiple						
function.							
* maintain order of execution of execution context.	maintain order of execution of execution context.						
also known as Program Stack, Control Stack, Runtime Stack,							
Machine 8tack, Execution contex stack							
Note 164 and replace considered in Place mercany black of execution							
Ex Let us sec call stack for program 1.	En het us sec collstack for program 1.						
When a Junction is called	When a Junction Iscalled						
Call stack the a Execution context you	Call stack the a Execution context goes						
in to the stack creat	into the stack creation						
2	L (13.3 10 18)						
George Execution Square 2 > EC2	General Execution Square 2 > EC2						
When execution of this function is completed, Execution stack 1 is paper	dout C						
and next execution stack i.e. E 62 in this case jos in the call sta	ek e						
poped							
Call stack Call stack E62 Call stack	1						
Execution Speakers E & 2	0						
General Execution GEC GEC GEC							
Mening Kode							
all other production and a little of the state of the sta							
1 Callstock	rau (
FF:	Coll Stack						
9EC GEC							
Inle au a							