	Nave Krishna		
	Namaste-Jo	wascript !	Pg No: Pg No: A Shay Dani
	esta anginaut	test toinin	action 3
	make de	HOON WHI	umli
1	Episode-1	AH Broth &	MALIE
1.1	mmmm	HOY 10712	ACCO CONTRACTOR OF THE PARTY OF
*	How Javascript	Works &	Execution Context
\longrightarrow	Everything in Javascript happens inside an Execution Context		
8	Division Structural Control Control	unnamin H	1019
\rightarrow	Execution Context	dami rien	400
	unitarna antiset to	id loo x li	Wife .
	Tt is a big box o whole Javascript	r a contain	ur in which
	whole Javascript	- cade is	executed.
11.	2.1.1.	Color	Thomas
VOY	iable Memory	walt	Thread of Execution
_ envi	Key: value	0	CALCUITUL
	115	3	
	a: 10 fn: {}	Mr. Charles	
	fn: {.,}	•	ahu ukwa !
			1434 1 3
			i Pho B
	Two components:	Br. AC.	
(1)	Memory Componer	It (Varial	ele Env)
	Their in Hor Man	1.10100 000	1 111
	This is the place and functions ar	will office of	2 Jarvables
	DAILC	~ 71 MED 1	us key-valle
	pairs e.g. a=2 -> a:2 (Key: Value)		
	by value		

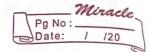
7)	Code Component (Thread of Execution)
-	This is the place where code is executed
	This is the place where code is executed
X	Javascript is a synchronous single- thrusded language.
	threaded language?
\longrightarrow	Single Threaded: JS can execute only one command at a time.
	one command at a time.
	all aparis - allerans and
\rightarrow	Synchronous Single Threaded: Means that Tanascript can only execute one command at a time and in a
1600	Janascript can only execute one
	command at a time and in a
	Specific order MUTTA 390 VSOM AM
	C 1100 1 1100 1111 1110 1111
21	the current line has been finished
	executing.
	biggt si who a wanter and the
	- 101 11012 21 1020 1 10 10 10 10 10 10 10 10 10 10 10 10
	Episode-2
	Episode - 2
	hand the state of
X	What happens when you run Javascript
	code?
	Loristek art ist avenue
\rightarrow	When we run a code, a global execution
	context is created.
	2) - (D = - x = (A D T H D E X = - = (P) - (S

	II .	
435	Mary Mary	Pg No:
1-4	0M g9 / 1	Date: / /20
	ST V white livery	

\rightarrow	Code: x2 la board) transport in (c)	
201	Varin= 2 chas saider was a interior interior	
	function course (num) {	
	function square (num) { var ans = num * num	
	return ans spariogal Johnwalt	
91		
	ration when we man all is be book to be on it	
	var square 2 = + square (1)	
	MAC SOMANIA - SOMANI (4)	
tout	ANOLA : Aubount cloniz kingungungung :	
\rightarrow	Execution context is created in 2 phases.	
	so ai trao & mitton to stangardin	
1)	MEMORY CREATION PHASE AIME	
	The state of the s	
\rightarrow	Janascript will allocate memory to all	
1	Janascript will allocate memory to all the variables and functions.	
	execution a	
	Mariables: undefined	
	functions: whole code is stored	
	Memory Code	
	200000000000000000000000000000000000000	
	n: undefined	
70	square: Qu. mayor magor bod (N) X	
1	square2: undifined	
	square 4: undefined	
Gard	may s decide a chan a am war and to	
	bitors sinteres	
2)	CODE EXECUTION PHASE	



	Pg.No:
\rightarrow	program line by line and it executes the code now.
	the code ones line and it executes
111	
—	2 value of n is assigned in memory.
	function square: Nothing to do main to
	function square: Nothing to do, mou to
\longrightarrow	Now in Var square 2 = square (n)
	and invocation 24
Ma 3	When a new function is invoked, a new execution context is created
	CALLACTION COPPLATE IS O'CLULLED
	(H) Memory = Horan Code at most
	netos A: 20 d Align +x Minoryin Code wold
	Edrace (U)
	100 2+1 200 100 21 21 1920 11 100 100 11 100 100 11 100 100 11 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
.11	And again the cycle repeats.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Whenever a function is invoked, new execution context is created in 2 phases
4.40	and cano
	In phase 21 passed
•	parameter M C Jonum. value
Anna a	The state of the s
	num: undefined num is stored in ans undefined num is stored and undefined
	The same has



	* «160(-a)		Boate. 1 120
- PT	Cetura Kenny	ed ctatis that re	tum the
Y.	contral of t	rd states that re he program, to the func. is invoked	the place
	where this !	func is invoked	100 181+ 1
			it WM II
-	ie var sar	vare 2 = square (0) return
	V		(here
	MC		
(0)	2000 Dalu M	I'ms w	Il be delited
- 1-11	Square2: 4 num:	return ans after	me return a
		Value	
	A CHARLES		
-101	HS SOUN OW 1	are return the val	lly whole
	matance of T	the execution con-	Hextell tuic nu
132	will be all	lited. 21 +x3+111	1411C1 JULY 13. 13. 1
>	Same for w	ar square 4 = 59	MAROLL)
the second			
	New execution	on context will b	e created
(0)	and so on.		
30	10000	CARLES A	
-	Once Is is a	the ll with all its	Work,
7	now the pro	gram is finished	the
	global exe	aution context a	elso deletes,
	1+ goil of		V
X	Can Ctank	n 21 martinit on	Dunuld
4	Call 3 work	biast and	andansx91
1	1 2 lead of	1,1157, 900	Cal ere Context
rus	h(3)	> POP (2) FC is con	when new
push (2) EC2	The constant	ated. It is
	1 EC1	pop (1) Pushed f	Ifter its work
push	CIEC		ted it is poped EC2 is pushed
	525	and so on	15 Pusher
		V-1 (M 30 04)	



	Date: / /20
-	Call Stade pariols
	Call Stack maintains the order of execution of execution contexts.
	execution contexts.
-	It handles everything to margare this
	execution context coesting and
	the control
	It handles everything to manage this execution context creation, deletion, and the control.
	Other names of Call Stack
	1. Execution Context Stack
	2. Program Stack
	3. Cartal "
	4. Runtine "
	5. Machine "