	me	irace	e
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			(F)

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	cansale, lag (a)
	n drumber 121
	Local to Dissert and Later and Comment and Later and Comment
\Rightarrow	100 (If not found inside its lexical
	env, it tries searching in parent
	and so on)
	CADIT A-IN TO SCRIPT
9.9	CU(ST)U = 10
4	[const a = 20 -> In Black] different
	const a = 20 - In Black differs
1 1	CANST Q=30 - In BLOCK j.e.
	→ Script
	$\frac{1}{2}$
	consolutog(a) Consolutog(a) Consolutog(a) Consolutog(a)
\Rightarrow	MID attack with managed Cost with -> Black
	in walm was little of contring on a:30
411	tul cours todals of noiteral.
	EDISODE - DESCRIPTION
71	animum di del di di taja
W	wicewast rais to state with a southern and the
X	Clasurus in JS
\rightarrow	Clasure: Function bundled with its
	losure
>	e.g. = 001 = 0 = 1022 = 5
	and references a second resident of the second seco

	B
	function $x()$
	vara=7
	function y() { console.log(a)
	cansoli, log (a)
1 11	January was well a worker
	The state of the s
CHARLES IN	$\mathcal{X}()$ (b) (c) (c)
100	was de it is the real and - > () = = 1 Take
\Rightarrow	Fixer (2) out itanie
	Company of the compan
\rightarrow	So, hur the function y() is bind together
- W	1 vith its lovical landing and is
L	the lexical parent of y(). So, y has
	the lexical parent of y(). So, y has a case to x() variables and form a
	clarine.
	1000
\longrightarrow	Check MDN does for more info.
//3:14	1) Chiange of Chiantino
\rightarrow	the can also return a function
- 1114	Functions are so beautiful that when
\rightarrow	Function are so another function
1000	they are returned from another function, they still maintains their lexical scope.
	They remember where they were actually present.
	ALL ALL MAN AND AND AND AND AND AND AND AND AND A
	Javascript is synchronous. After we call a function it is deleted from the
	-a fronting it is deleted from the
10	execution context. All the variables,
10/14	functions etc. are gone.
=	Tundial a ci a la l

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2.9	function x() {
J	Var a = 7
	function y() { () notion
	consoli log (a)
	return y \ we can return a function in 15
	- Carlodolla
*	Var z=x() < when we call x(), its EC, variables
	var $z = x() \leftarrow when we call x(), is deleted. The$
	Totumed 4) ture
udtro	stored in Z. So, if
\Rightarrow	ful) [we console log 2, we
	console, log (a) get a function.
	3 and but But what if we
	call z, now, the var
	7 a=7 is deleted, the
	whole all no larger
	exists, what will it return (consoli
_	(log)? It will still log 7.
	How? Here, comes closure into picture. So, when func are returned from
	So, when tune are returned from
Activi	
1.40	maintains their lexical scape Sarit
14.3.01	remembers their was var a = 7 and
	has strong binding.
	111 co de columna de contenta de
Jo M. Sin	when we return y, not just the function code was returned, but the closure was returned (Closure-funcentlosed along with its lexical scope)
	things can was returned, but the
	clasura was returned (lasura-func.
	enclosed along with 1th lexical scope)

		Pg.No:
$\overline{\Rightarrow}$	We can also write	i idonaldi com
	return function y() {	in the suite of
	1 O sitting to butter	Prod
	instead of return y().	40.45
\rightarrow	Usis of Clasure:	Circles
1)	Madule Design Pattern Currying	Lional (=
3)	Functions like "once" Memoize Maintaining state in async wa	<u>r</u> qq
- 6) +	SetTimeouts Terators	ob wattle
	and many more	- <u>e</u>
	Episode-II	В
		airia (b)
*	set Timeout + Clasures Intervier	Control (
→ —	set Timeout stores the function different place and attaches to it. When the timer is finite rejoins the call stack and is	a timer
	rejoins the call stack and is	escecuted

	m	iracl	-
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			The

	BDate. 7 720
\rightarrow	Code: 100 0010 0010 000 100 000
	function x() { I () in the state of the stat
	var i=1
	set Time Out (function () { console log(i)
	cansale lag (i)
	1 3000
•	o carrole. (ag ("Namaste 75")
	3
	JS is synchronous.
	15 13 Of wait It
\Rightarrow	Namaste JS To is synchronous, sec. Namaste JS The work work of the count when
	Nomante JS Tt whn t wait It for set Time out when ill nove expleted, it
	Nomaste JS It was to word when for set to word it will now completed it
	for set forward, it will mare completed, it
	How to get this output?
	A sittle la situation de la constitución de la cons
	1 1 after 1s, 2 after 2s, 2 3 after 3 s and so on
	2 3 apar 3 s and so on
	11
	6
(1)	function x() [
(10)	for (let i = 1. i < 5. i + +) f
	setTime out (function()?
	(i) 001 10001
-	a finite in a particular in the second
0.0	in the state of th
Li	Transport in both a both of the color of the
	~()



14	When we use let, every time a new capy of variable is attached to the set Timeant So, for i=1, a copy is attached, for 2 different capy
	At Mainhly is attached to the cet Trainer!
- A	So for i=1 a social is all solved con 2
	different a copy is attacked, the
-	witterent copy
-	
	When we use let every time a new copy of variable is attached to the settime out
1101	of variable is attached to the settime out
	function.
	Because it is
	For i=1, setTimeOut black scaped.
	i=2 (a) inicals astrain
	(1) not to quit I turn with to
	Carry M. Linguage
-14	We cannot use var. If we use var
72	How the under oh i is apphal scaped.
8	Even by any the settiment starts.
//10	in ill coach at the end of the loop
	then the value of i is global scoped. Even before the settimeout starts, i will reach at the end of the loop everytime and will print 6.
	evogona and will print o.
1.0	-uGus i for man and a so must not
	The second of the second of the second
	6
	6
	6
	11. 000
(2)	var with Clasure
- 477	fur Without closure, the var reference
	gives the latest value as it does not
	gives the latest value as it does not retain the original value but rather
	has the reference, so any update in the
	has the reference, so any update in the
	House the second of the second

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100 1101 2	With closure, we can solve this problem. It was not working because I was referring to the same memory location
	[console: lag(i) - to in for loop]
kha.	So, we have to do something that is supplied with a new value everytime.
21 Je 1	function $x()$ { for (var $i=1$; $i \le 5$; $i \ne t$) {
	function closuru(x) { Set Time But (function () {
. Ja si	canale log(x) * 1000 We can instead claims (i) any none instead
	Jeclaswa (i) +3 st warmy ran
	Here, there is a new copy of i everytime and so, we can achieve the desired output.
7.3	
	company with with much trialties and
	then ish it are entar touch with nine
	many of the hearn't rule when