30	Pg.No: Date: / /20
1	Towns to metabolis Hange gullet -
1	II DISOde - Our tol othice Ideimon
	many all and only of the
*	let and constrain IS. I = 1 +91 10.5
fil	d per ale van on not stell be
$\rightarrow$	let and const declarations are hoisted.
	hut its memory is allocated at other
	place than window (global scape) which
	place than window (global scope) which cannot be accessed by fore initialization.
	3 (Men) La Add 12 4 m 20 m Meleck of 95 (MC) 11/2 (MC) 10/10/10/10/10/10/10/10/10/10/10/10/10/1
$\rightarrow$	Temporal Dead Zone (TDZ) is a block
4/1	whire a variable is inaccessible until
130	the moment the computer initializes it
	with a value.
	in Jones a a diction of a such as distributed the area of the
$\longrightarrow$	estignical established a truing mais individual finil
-	let a = 10
	const b = 100
	tidi a dissily: gorn? xataus destaus
205100	On console: window a => undefined
7	window. b => undefined
	window. $c \Rightarrow 1000$
	window, X -> undetined
	window. variable and this. variable are same
	INTO M. VOUTANCE COMMENTED THE ABOUT THE STATE OF THE STA
	Thus, window. variable or this variable
7	will return undefined if we use
	let and const.
	let we consider the same of th

	Boate. 7 120
$\rightarrow$	We cannot redeclare the same
	variable with let and const. Ceven
	with using var the next time)
e , 9	let a = 10 y Syntax Error: Identifier
	let a = 10 × Syntax Error: Identifier let a = 100 × a has already been
	astrian was undistanal suductored and full to
	let a = 10000llg si manum sti till
Mil	Waraa = 10000 Sanabain and tousala
	i osilottiai anotto perano id tango
	Same with const (in place of let)
9	
	canst a=10 x Type Error: Assignment a=1000 to constant variable
	a = 1000 to constant variable
	The state of the s
$\overline{}$	const variable de claration and
	initialisation must be done on the
	same line
	canst 6 = 10 \ 001 = d + and
19	CATAL O = 10 C
	const 6 x Syntax Error: Missing initializer
	canst 6 x Syntax Error: Missing initializer 6=10 in canst declaration
	LOUND AND AND AND AND AND AND AND AND AND A
	letobolic a wasping
	- K=itobat & X, wohair
MANO	an eldoriou sint has aldinal weekning
$\rightarrow$	Use const whenever possible followed
1141	bu let line var as little an amariba.
	Use const whenever possible followed by let, the var as little as passible. Conly if you have to ) It helps avoiding error.
	avaiding error.

	Pg.No:
7	const => Most strict
	let => Strict of or morning entre
110	var => least strict (T) direct
	far 43.
<del></del>	Types of errors:
[1]	Reference Ervor: When Is engine très to
	find out a specific variable
	inside the memory space
	and you cannot access it.
	I Black Gran and Shadawan in Is
	e.g. console lag (a) , Reference Error:
	leta=101 leta Carnot access
	a before
	initialization
1	11201 house and atquations alcating
	console log (a) => undefined in
	Var a = 10 output (consoli
To 7	CARADA IND CM) V RILIYADA COME:
FX	console log (x) X Reference Error:
	water sodale and william atorner
12	Type Error: When we change the value
	of a type that is not supposed
	Type Error: When we change the value of a type that is not supposed to be changed i.e. const
	· cont a = 10 is Tripiconos Accionment
	e.g. const a = 10 x Typi Error: Assignment a = 100 to constant
	Translation & while ( same for const
4	
13	Syntax Error: When proper syntax (way of writing a statement) is not used.  e.g. Both examples in previous page
	writing a statement) is not used
	e. a. Both examples in previous page



$\longrightarrow$	Initializing variables at the top
	of the program is good, it helps
	of the program is good, it helps to shrink TDZ (temporal dead zone)
	to 7819.
8 8 4	1 6 200 ps da Licht +-
12	IFF DUMPER ST ONKY : TONGS ITMENTED IN
1	DISDALE / tua bait
	manage the state of
	L'asto tanno 1 usu hao
	Black Scape and Shadawing in IS
	in is annexited . Cologialarinos en p. 9
$\rightarrow$	Cade inside curly bracket is called
زو	block f}
witer	Cartion I was the same of the
$\rightarrow$	Multiple statements are grouped inside
ni	Multiple statements are grouped inside a block so it can be written where
lizna	IS expects single statements like in if, else, loop, function etc.
	if, else, loop, function etc.
: 701	BASQUELLA SE (SC) DAL LONGA I IN
$\rightarrow$	Black variables are stored inside
	are stored in black. They
	are stored in black
los	aggave the entitle out a de 10
$\rightarrow$	let and const are blocked scoped.
(will)	So, a variable declared in a black
	LAHTO 18th 18 DODIN DAID HAD C.
	within that black (same for const)
	( COTUSE)
	eng xoranz ugan andel: 30 mg xotanis 18
	and sun Bi (doubted a printing) Delle
	and distinct in the second

	Date: / /20
13/4	JURGE WATOOD AT 21 ZINII COM MICH THE
	Var a = 10
	1e+ b=20
	canst c = 30
	Console, lag (a)
	Console. (pg (b)
	Consolar (a)
	7 console. log (c)
	Console Lag (a)
	console (og (b)
	consoli. Log (c)
	10
	20000 on Idnimar or Horn way 481
	30 has haminged the autilities algorial
	aldning authority
	Reference Error: b is not defined Congram
	Stops here I die to man and
$\rightarrow$	Shadowing in TS refus to a situation
	where a variable declared within a
	Cirtain scope has the same name as a
	variable declared in an outer scape.
	This happens, the inner variable "shadows" or takes precedence over
	"Shadows" or takes precedence over
	the outer one of the
<b>→</b>	e.g. rang lax andrain and the
GR	mind which is to dampar is side in the
	Code: Companyed Hi and again

	Boate. 7 120
www.	let x = 10 -> This is in another scape (Script)
	ALE SO LOVE
	[ let x=5 -> This has black scopt.
	$let x = 5 \longrightarrow has e = 3 + 4000$
	console lag (sc) (s)
	(d) 400 . 01 66 103
	a section fall convers
	console leg (x)
	7
$\Rightarrow$	5 (O) pal. alazna is
-	O the state of the
	Illegal Shadowing:
	91 011 011 01 010 1010 1010 1010 101
	It you create a variable in a global
	another variable with a var regulard
mo	in a block scape but with the exact
	came name, it will throw an error.
	1,51,000 341 61101 1
2.9	lettra=20 / / / AT oi prignahori 2 /
	in nighter described de nitray so unaffer
A Lord	is amon in (2-12N+ 111) upon nichting
	Javaria=1010 of lordreb selding
	Edairate Hair to an and right and item
17	Syntax Error: Identifier 'a' has already
	ella declared
_	# T 12 0
	If I do function x() { var a = 10}, then
	it is fine Because it is inside function
	scape (in its boundaries)



<b>→</b>	Black is also known as Compound
	Statement.
	STUATION.
	1. V
	When the execution of black is completed, it is deleted from the scope.
	It is delited from the scope.
+	env. it tries concluent in our
$\rightarrow$	Shadowing: Scope
	J global so
P. 9.	Shadawing:  Var a = 100  Var a = 100  Var a = 100
70	i shade a
1	This you
1	The state of the s
	Var a = 100
	console log (a) > global scope
0.11	
04	
-	cansole. log (a) (a) par elacan
0 -	
$\Rightarrow$	100 Why 100? Because they both are
08	I had anisting to the case mande
	laration in applications (indicated)
	Location in global scope (unlike let and const)
	(BT WILL COURSE)
	1.e. First 10 is assigned. Then 100, 100 is
	i.e. First 10 is assigned. Then 100, 100 is then permenantly stored in memory
	as a: 100.
-	Black scope follows lexical scope.
	300
. ^	const a=10
4.9	CHINE W-10
7	
	const a = 100

	Pg No:
	canale. lag (a)
	1 damiliate
ketil	land si sinada da paidinases unt pratat e
$\Rightarrow$	100 (If not found inside its lexical
	env, it tries searching in parent
	and so on)
	COOL 0-10 TO Script
e. 9	$\frac{\text{const } \alpha = 10}{\text{const}}$
	[ canat a = 20 -> In Black ] different
	[ 00 = 0 701   block
	const a=30 - In Black j.e.
	2 0:10
	console log(a) (b) pal. 1 -> Black
	0.20
$\Rightarrow$	10 stad west across 4 colling of Black
9 85 1	THE CHAIN STATES
	Tiledis Lodge of Gottoral
2i 0	1.00 First 10 is assigned Thurston 1
1.1	govern oi besetz Putacheming aust
	001200 10
	- Black suppr forming lexical scape.
	01 = 0 + 1993 F
	1001=0 d/ndo