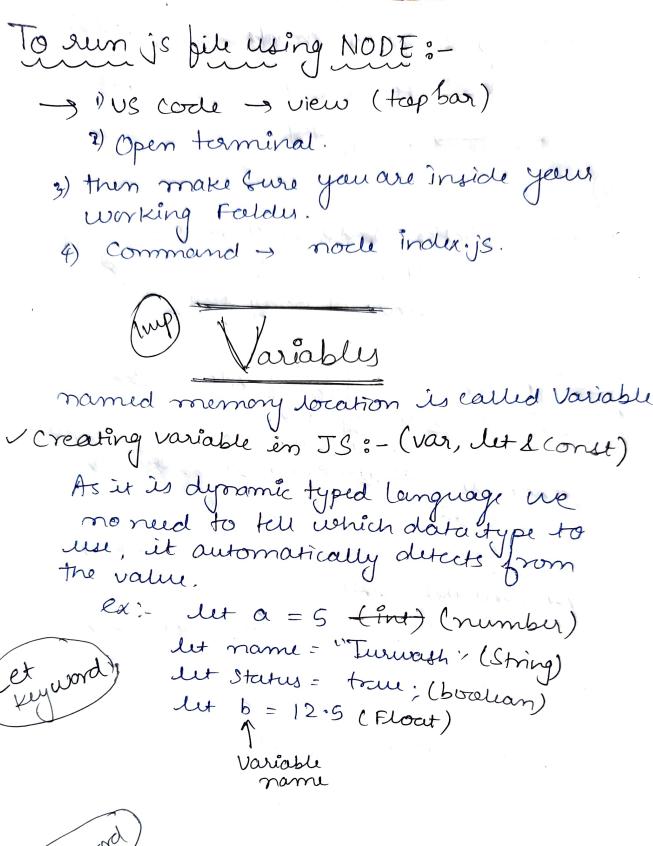
7th February 2023 Turwash's Notes Java Script-class 1 Javascript Basics:-5 Logic and Functionality. What is Java Script! -> light weight programming language ! Scripting language use to implement the Hory Schariain of the website Netscape manigator Founded Javascript (1994) Firsty it was called Mocha, Then LiveScript then Java Script what can we do with JS:-- ue can create web app/mobile app/ network apps - CLI touls -s lames client Side Scripting language executes on web browser, The Is Engine (environment hulp to run JS code) en Chrome is called VS DONT 40 Firefor -> Spider Monkey

To run JavaScript Outside the Brawsu
a c++ program added with TS and NODE is Invented (by Pyan Dahl)
To run Java Script
Client side Server Side
Brawsur
Q) what is Server?
A computer which gives back data to client's Computer when Client Searches Something
Something.
9
- Inspect en browsu & go to Console
→ To Run in Brawser:- — J'Inspect' en braweu & go to Console' 4 then you can Code:
7) To Pun in IDE: - (code editor)
→ 1) VS code → Install 2) Node js → Install
Adding JS in Code
use < Script > tag en HTMl document.
ex! - < Seript >) to print or lock.
console log ("Namaste Duniya"),
used Fer ide
used Fer Clientside Scripting

vue can add script tag Priside
Body tag
(1) Rest practice!
) Best practice is to add in Body tag
below of all the HTML codes add
Dest practice is to add in Body tag below of all the HTML codes add Script in last of Body tag.
luny?
> It will create Bug if added above
in the body tag or in Head tag, First Script will run & can't able to parse that will cause error or Delay in
First Script with run & can't able to parse
that will cause error or Delay in
execution.
L'amment en Javascript
using forward stoshes ('//) No significance in execution.
External JS
Due to Separation of concurs, we will

Due to Separation of Concurn, we will use external File for Javascript. we create javascript File we use extension (is)

Linking < Script 3rc = "index.js" > 4/Script>



you var name = 'Tuewesh',

Let u/s var Block difference is of Scape global. Jut is a block Scape variable let a = 5; (only be used prock) egrif (mu) let a = 5 (error) console log (a); Now) var is a global Scope variable (anguenire in the code document) -) let -> redeclaration not allowed - var - reductaration is allowed > Fixed value of Variable Can't be changed Const a = 5 a=6 (upolation mat

No reductablish

allowed)

Variable Naming
Rules
4) commat be a reserved keyword (let if X)
5 mianing gui
G Connat Start with number (16x)
Ly camel Case (first Name)
and the second s
primitive Types) defined types
-> String -> ("Turwash") -> Numbu -> (1,2,3,4, 1-23,5-64)
-> Bordlean -> true er false. -> Undefined -> (luta;) not defined
-> undefined -> (lita;) not defined -> null -> empty variable (defined empty
Dyramic typing. Schanging data type in JS
Let $\alpha = 5$;
a = 'Turwash'.
a = 'Turwash'. Console log (a).
I Turwash printed

Régerence Types (datatypes)
(1) Objects (multiple variables linked) items (js) (2) Arrays (list of similar datatypes) (3) Functions
Dobject: - (top level entity for muliple linked)
birst Name = 'Turwash', age = 24 properties b;
To Access:- - dat Notation (person age) - Bracket Notation (person [age/])
2) Arrays ?-) used to Contain a list of items
To Access:- O' 1 2 indexes Literanie = ['lare', 'rahul', 'Sangram'], To Access:- O' 1 2 Andexes.
names [1] -> takel names [0] -> love
names [3] = 'ramesh'; // Value added

(ECMA) Standard of Javasempt ECMA to an your odd updatus
which Journal of the services in 2016 respond in 2015 puators () Anthmetic (+,-,*,1,10, **) (2) Assignment (=, +=, -=, *=, /=, 1/=) (3) Comparison (7, <, >=, <=, ===, [==) (4) Ternary (condition) (cond ? val 1 : val 2) 15) Bitwise Logical (AND, OR, NOT) (6) Bétwise (Bitwise AND, Bitwise OR) & pre/post -> Inovernent/decrement operator (++ x;) -> pre-increment Firstly increment the value Second, use the value

console.log (++x);

eg:(x++) -> past, movement Operator
(tra=6 (x++) -(console.log(a++) first use the value
(6) Second increment the value

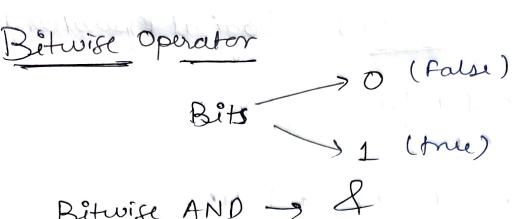
CX: lut x=10

est str = '1'

= = = gives False.

Condo ? val 1 : val 2; let Status = (agl >=18)? 'vote': 'cons'. Logical operator (ma) (condⁿ1 && Cordⁿ2 && cordⁿ3) if any condition is False the entire False All conditions have to be true (condⁿ1 || condⁿ2 || condⁿ3) any condition is true From Trale all False then only False. NOT True -> False false -> True

With Non Booleans (Logical Operator) (true 11 false) - trave (true 11 true) -> true (false 11 false) - false Naw, (falsig 11 'love') - s lave (trave [1 1 115) - 1 Concept of Falsy & Truthy,) Falsy Truthy anything that is not Falsy undefined nui False truthy , NaN (false 11 'love') | * Short Circuiting Concept in DR (false 11 1 11 5) Finds truthy then Stop execution prints (1



Bitwise AND - & A Bitwise OR -> 1



A	В	Olp
0	Ō	0
0	1 1	
1	0	\bigcirc
1	1	1



-	A	B	0/0
	0	0	0
	\bigcirc	1	1
	1	O	1
	1	1	1
	-		

Operator precedence let c = a+b*d/c; which operator first ? use brackets to resolve problem of precedency. let c = (a+((b*d)/c)) Control Statements: 1) If-else 2) Switch] two ways. (1) if -else: - (if - elseif - else) single of if (condition) of can be multitple of else of Single of Single of the state Switch-case: cogic $\begin{cases} \text{input } 1 \rightarrow A \\ 2 \rightarrow B \\ 3 \rightarrow C \end{cases}$

Symtax Switch Case:

Switch (expression) (

Case 1: -- break)

Case 2: -- Ofter executing the Case of the Case of the Case of the Case of the Control Statement of will not execute further the Execute further of task)

2) while loop 3) Do-while loop 4) what is an Infinite loop? 5) for-in Loop 6) For - of loop 1) For loop initialisation Condition consale log (i). 01234

1) For loop

2) while love initialization while (condition)

i ++;

updatton.

3) Do-while loop:
let i = 0

do

of

i++; & while (i<10);

This executes at least one Time condition is Free or Not it executes one Time at least.