-JS was invented by Brendan Eich in 1998 -It was developed for Netscape 2, and became the ECMA-262 standard in 1997 - European Comp Manufacturers Association Coma International is an organization that davelops slandards in compute & technology - ESI to ESS (1997 15 2005) - Is is a light weight object programming language - Use in form submit - in dient side validation, - poperp/ event on click. Uses: - dient side execute / browser (JS query, Roact. JS, angular JS) - website Server Side (node js Expres is) - Mobile Development (Hybrid App) (Francook for mobile app was native, phone gap etc) Software Development (Eection is, Ex-vscale, Framework etc) escript > alat ("hellow"); escript) is file connect > escript src = "script. is" > c/script> VARIABLE Let a = 10 let a 2 20; - eur von az lo ? var az 20 J no eur console log (a); const abc; a 2 "hera"; cons pi= 3.142;

let name = " hira" rame = Sumairo, Console. 1 og ( name); let is Pars = time; Console, log (is Pass); Variable: is just the a container Plore information, reserve space in menory ils date can vary but memory location will alway remails gone Daning variable in IS: variable's name can't be any keyword e.g alat, prompt case sensetive, name should be different not same. alphabet, name, tunte, Illan lign, and underscore not start with digit, no space dlowed As a good programm Variable name should be match with content 2 name variable join find start with. small lette and End capital Colle (Camel care) fallName, rollNomber. . Van Lused before Gema Scupt (declar again and again After Es6 -> 2 Keyword use for declaration vouisble , let ( its value can change my time in PL) · Conto exampte pi salue

Variable Scope Variable: - 3 3 Globle Scope Variable: used globally in whole Proglam. Comment in Js: Single line 11 Double line /# \* object has or is lea but of ect doc Print Display in Is ( document, write ( " orld"),) on Browser: window. document - write ("hing") In Console: Console: / og ("hina"); popup 3 window.alest ("hira"); V Taking Input from User in Is: Prompt 1) function ask for the user for input. let answer z prompt ("Do v want to send payment y/n?:")3 Vanable Var let const - Var az6; let az6; let a z 10;

not allowed againdedan

- const abc: "hello"; Datalypes Rules Data Types · number string boolean null, undefined . Array object, functions let abe; let abel23; let d'abe; lel-abe; intage 255; document wille (age); console leg (type of age);

Primitive N	0
Primitive Dala lypes stung -> letrollato (6)	
Boolean -> let name = "Noor"; let 9spans.	- time;
Object (mill)	
Object (null) > let clars= null;	
Dalā Types in JS	,
Primitive Type Composite/N  L Numbers L null y also known Objects  Strings L undefined as Trivial/ Arrays	on-Primitive
- Numbers   null yalso known Objects	11003
Strings Lundefined as Trivial/ Arrays	Park.
Numbers   hull y also known Objects  - Strings   undefined as Trivial   Arrays  Boslean   Bype	
Non-Primitive Data Types	
Firray: Store multiple value in single varia	ble value
unitter square backets [] let 9nfo = [s, 1 hin	
Console. Log Cinfo	
Away Object	
console log (type of info); rollno =5,	
name: dans	
Sub: math	
Console-log (ty	student);
Class: 4 "Operators"	++ q a++
Authorelia (+, -, *, 1, 1. Exponentat	movement
Assignment a=a+2, a=a-2, a=a*2	Decrement a
	!= b
Logical SS 11 ! not	
Conditional	
	SANSAR DAVISOR

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function welcome () } document utile ("welcome"); 3 function sub (a, b) } let catb; return c; 3 Hrithmetic Operator let a = 10; b= 20; Consollog (a+b); a (a-b); (axb); (a/b); (a+b+a); Class: 5. Comparision: if (a==b) { document will (a equal to b) } } else & doc will (anot egal to b)}; let nom 40 Let result = nom 1/2 = 20? "Even"; "odd";) alent (result); Class: 6: create Marksheet. (Solve Assignment 01) Paple Creale in Js document, will ( Clable bolder = 4,"); ("Ltw> Lth> Subject Moules although out of ethraltis);

Class: 7 Condition Operator If , else , it else if statement it (az=b) { doc-unité (" equal"); ife else if (axb) 3 doc unité ("a greaten thom b") else & Catton & doc wete ("b grater than a); Switch let reply = prompt ("Do You want to continu -- "); Switch (reply) 3 care "y", doc mile ("continu"); break; document. cuile ("continui"); break; care N'; doc. mile ("end"); default & doc muite ("mong input"), 3 String Creation & Manipulation let str1 = "Java Scripl"; 4 Still 2 ' Java Scripti'; Ste 3 2 String l'emplale; // template literal (adjacent to 1 key inkey board) Template literal introdus C66 · for next line In . for tab It · for print \in string . for with Variable in String & I van manie. · for doublegote hello "hello" Ste length length & String

String Properties & methods. She length To Join Strings -> doc mili (st. 1+ " "+ st. 2)/(sul," ", st.2) by coneal -> let sti 4. coneat (sti 2)/ stis coneat (sti2, stis) Concat - join to string 3ti 2 = "Script" Stal = Java new = stil. concat(sti2)
Output > Javascript > (sti2, sti3 Str. tuin() remove space start 4 end tum Start ) tum Enel (1 Str. to appeared) upper care Str. (olowerd) lower case. Str. replace(1) Replace

(str. replace(reading;) "learning")); Ste includes ("is") //search word is /if not found Setern -1 Ste = " Ste is Learning Is" Ste. include ("is"); 3tr. include (" Js"); return Time gte. include (" we"); Relius false

Class. 8; Switch / broad / string Method For 100p. LOOD: To execute a piece of code finile 100p & infairle 100p finite (op ( eneling point Mile (not end) memory full) Compulir hong. for for (let 1=1 , 1>= 10 ; i++) ? console log (i); 5 for of: 1ct au 2 [34, 'abc', 'xyz' for (let value of our) } doc. aute (value) } Const gladent = { name fatime Sub; "comp" 3 for Clet key in Student dot unent with ( key;" : ", student fk ], " ( bis) While uthile (1/25) } da mile ("Hello", ;);} Do- while In will ("Hell's", (br)): 1++3 while ( 1 > 25);

Class: 9: Alway. Notre multiple value in single Vouvalshi Value Wahitten in Square CJ Value Sepeated by comme. each position is called index auto7, auti) anztial 'b', 1e1, 1017; an length () // length of an are push ("e"); It add word in alway in the end our unswift ("e"); I add in Start an slifti (): 11 remove a word from slet au . pop () Il remove word from lest & relun an - to sting () . I convert away in sting an - concat (au2) 11 join 2 or 3 sting FUNCTION A Is function is a block of code designed to performa particular lask A JS function is executed when "something" involves it fcalls : 63 , fine name. function abc () { doc.weite ("Noos"); } abc(); Function definition (define) function invoke (call) fundin frame() frame() 7 block of codes 3 Iname (arg 1, arg 2) or function frame (P1, P2) Inam (2,3) } doc. write (p1+p2) } let ans = Sum (2,3) function sum (p1, p2) Console log (ans); { ans = pl+ p2; relum ans; }

Const tname = () => { block of code }