Date: 20/01/2024 NOTES É JAVASCRIPT · Javac cript was invented by Brandon Eich in 1996.

It was devoloped for Netscape 2, and became the -ECMA-262 Standard in 1997. · European Computer Manufactures Association Ecma international (Formally Europen Computer Manufactures Association) is an oranganization that develops stands in computer and + ESI to BS 50 (1997 to 2009) After that in 2015 (major charges to follow the rules and regulation) this is called Esma Sneipt/Es 2015/EsG.

* ESG is standard for javascript after 0 that every year new changes came Est, ES8, ES10 Etc. Programmine lanuage.

De in Form gubo buit & in cliend side validation * Popup / events on dick. Uses cliend side execute / browsers (Is query ~ React Is, angular Is) o Website SErver SIde (Nede js. Expres 3s) Mobile Development (Hybrid App) (Framework for mobile app react native, phone gap etc. software Development (Eaction Is, Ex-val vscode / framework etc.

Date: 24/01/2024 Variables e voreable es just like a container · variable is used to store information vary but memory location will always remains same Maming Variables in Java Script Rubs. · variable's name can't be any kayword eg dret Prompt etc · variable is case sensitive. Same name in capital and small letters are different, eg Name or name (both are 2 different variables) · variables can be consist of alphabet, number dollars sign. and unders core. · variable name can't be start with dignt (number) its first litter. no space dlowed. As a good Programmer. · Your variable mane should mout on with its contents. . When you want a words join in variable name, so first word start with small letter and second word start with capital letter. o eng full Name, voll Number etc. (B) Variable. Cured before EcmoScript, this type of variable can be déclare again and again modera ora advance Saracsiji. After Es6 in these ? Keyword use for declaration variables

moulle. its value can change anytime in Iroquamning lanuagage and can delave and assign in a step. eg. let name; (declare name = "hello"; (assignment) Cit use for constant value eg Pi value, its value conts be changed it's value must be assigned at the time of declaration eg. const name - Hing". (decalore and axign in same Sentence) Comments in Is · Single line: 1/let name : "Hing". · Multi line: /* */ Variable Scope 1. Block Scope variable: it variable declare in block of conds (in curly braces & s) It will alive only in block and will not be accepable after, curly braces. 2. Globle Scope variable: these variables used globally in whole program. Print Display in Js window, document, write ("Hing") o On Browser: Console log ('Hing") om Console: Window alert (Hina") · Popup : Taking Input from Users in Je · Prompt: in Javascript, we use the prompt! Function to ask the user for input. As a parameter. we imput The next we want to display to the MATTAN wex, Once the user prosses, "Ex

Date: The input Value is returned we typically store user input in a variable so that we can use the information in our programe. Let answer = Prompt ("Do u want to sand payment Y/m?:"); in answer variable value will be Store and you can print it. Variables & Datatypes in Java Script Data Types in Js Primitive Types Composite/Non-Primitive ip (number String boolean) Object null (undefined) Also Knwon as a Trink / other Data types. Primitive Data Types. let rollNo=56; · number let name = "Zais ha"; · String let is pass = true; · boolean let Percentage; undefined let class = null; Object / null Note. data type To check type of variables

wate: Non Primitive Data types 1. Array · Store multips value in single variable . Variable written in squre backet [] Syntax let into = [5, Hino", Computer]; console alog- (info); document write (into); document write (info [1]); 2. Object · Store multiples value in single variable · Values written in curly brackets & in Pairs Syntax. studenat = hanne: "Hime? rollno: 235 Class: computer Note:-Print document. write (Studant). document, write (student rollno); 26/01/2024 · Arithmetic operator Assignment Operator Comparison operator Logical Operator. Conditional Operator

male: 26/01/2029 a Arithemetic Operator Mote: Unary Operators Addion + Post in cremed all Subtraction fire incremed +19 Multiplication x * Post decrement a-Division / modulus / remainder . %. Pre decrement -- a Increament Decrement 2 2 2 * Assignment Operator (axign Value) #= a=2. leffside = right + = a+-4/2 = a+4; * = \(\alpha = \alpha - \alpha \);

* = \(\alpha = \alpha + \alpha + \alpha + \alpha \);

* = \(\alpha = \alpha + \alpha + \alpha + \alpha \); % at. = 4/a = % 4; Comparison Operation

= = (qual to) === (equal to + same datalype

1 = (not equal to) !== (not equal to & datalype s greater than L less than Logical Operator · logical AMB & & Condition 1 & Blandition 2 all as · logical NoT 1 Note Condi Honal Operator Condition? in put false if stadement It-else statement out put ago >18? adult: MAMAT If-else if Statement

Date: 6 Get input from user p num ber and Obeck and point it is even number or odd. o Get input from fight a number and check It is dissible sof not and Print it is divisal Let = result = num? 2===00 "even" 'ordel "? 2/2/24 Template literal/String Tomplate Template literal are a features in Javas right that were introduced with ESG. They give you a more flexible and maintainable way of warking with string in Javascript. How to use template literal For next line In · For tab (space) · For Print (in string 1t For write variable in string & (variable name) · For double quatation Some String Properties and Methods let Str2= " Css" learning is"; str3="htm/" Position Index start with Oir String. Find length str. length. to join string document. write (str1+"" + str2)/(sto1,", sto2) by concat 10+ stry_str. concat (strz)/str. concat (strz, strz) document . write (stry)

mate: string is a sequence of character wed it is primetive data type. we can creat string by using template literals and in single and double quatalion. String Creation and manipulation 'lam learning"js", 11 double am learning is! // Single · let strs let str= 1 am learning string template; Muteral (adjacent to I key in key board. Let Str= lam learning Javascript; str. trim () to remove space from stert and end. Str. trimstart () 11 Str. trimend () // Sty. Uppe Case () // Change in uppercase Stri replace (") avasnipt", "html) // search word and. replace (Case sensitive) Str. in cludes ("is") // Search word is / if not found return -1 0 Carry Syntax · normal string: document write (my roll no is , various Q Ci template literal: document . write (my roll no is \$ / variable C String Manipulation 2 n use for print text in new line too spaces (tab) more than single space use gouble quotation in string

date: Array (Primitive data types, Store multiple value in single variable Values worten in square bracket.[] Switch statement. let reply = grompt (Di You want to continer") beeck. de fault document. write (wrong input) execute a piece of code. again and again finite loop and infinite loop. Finite loop (ending point) in first (not end) memory full (computer hang. For LOOP is block scoop variable. use for iteration, Counting (for (let i=1; i<= ?; i++) // documetro the (horse First step initialization 2rd Condition check just tak condition true black of code excute · 3rd Step updating

Array (Primitive data types. . Store multiples value in single variable. value written in square bracket . values separated by Comma. o each position is called index - each value call through index number start with o eg arr[0], arr [1] Sytax let in fo= [5, hina's: "computer"]; console. long (info) in fo=[1; // to empty any array. Properties and Method in Array let book - [Math", English", Urdu', Scieno", Physic"]; 1. book-length I length of array 2. book- push (Chemistry"); Il add word in array in the en 3. book. unshift (Chemistry); Il add in start of array 4. book. Shift () 16 remore award from start. 5. book. pop(); If to genore word from last and return updated arm G. book to string () Il convert array in string 7. book. con Cool (books) // Join 2 or 3 array in new array don't change original array. Click to add title · book index of ("Urder"); It to fird any word; position in array. · book. Slice (Start idx, and idx); Il don't change in Oringhalarry Il return a slice piece of array. · book. splice (Startida, delcount, next); // change original array (Kadd , remore and replace letar [1,23,45,6,7]; arr. splice (2,2,55,56); 1/2 index per3 1/3 and 4 remore 1/ replace If them 55 and 56 arr. Splice (3,0,44); Il if you don't want to detete any item 1/3 index per Jakoar add 44 an splice (2,3); Il if you don't want add only deleter them

Date: For of For in loop exing for of long using for of loop. . Create an object and Print key and data with it put asing for in look-While and Do while loop. . Print sum of 1 to do number by using while loop and do while lover. and do while loop, · Print country to to 1 print your hame so time on screen. print a table of any number by tuking wir in put Function In Js. 04 A Javascript function is a block of code designed 00 9 to perform a particular task. A Javascript Function 95 executed when something mg. world a invokes it calls it) 4 te co function definition/define 2 Runclian in voke function frame () (call)
frame(); 9 rerage block of codes _ 2 ate & frame (2,3) function frame (Pl, P2) 2 let ans s sum (2/3); console tog (ans); document write (PI+P2) 2 C - function Sum (P1, P2) Cu return ans; 2 2

Date: Arrow Function Const frame = ()=> { book Code