## \*\* NOTES ON JAVASCRIPT\* NAME: NAMEEN NAVEED ROLL NO: JS-045 TEACHER: Miss HENA MENTOR: SIR FURDAN #Kechborce pakiston:

20/1124 Introduction to J3 Class 1.
Brendan Eich \_ 1995 Netscape 2, became ECMA - 262 Standard in 1997. European Computer Moneyfacturers Association develops stondards in Computer. ESI to ES5 (1997 to 2009).

Major changes in 2015 (temascript)
ES2015/BG. · ES6\_s standard for JS Then EST, ES8, ESlo etc. - JS is oo Programen g lenguage object oriented. · Used in form submit, client side validation, popup periente on click React, JS, ongular JS)

Neact, JS, ongular JS)

Websites Erver 3 i de (node js, Express
is) · Mobile develop. (hybridAP) · Software develop (Electron js, Ex-Vs coele) Fromeworketc)

First class Tovoscript (Js). Ms. Hina 20/1/2024. Introduction to JS (Class 1).

- Is was invented in 1995 by Brendon Fich FCMA - European Computer Manufectures - ESG , strandard = 7 EST, ESA, ES10 Popup.

Nebsite server

Mobile development

Soffware development

Etection j's, [framework, for mobile app react? Now code: index. Ltml love Server Lbody 7 Script 7 hello alert ("hello"); (popup) 4/script7 Script 7 <title7 First class of js </title7.

<unpt?

<ul>
 ("hello 2");

 alert ( hello1); (/surget) 2/body 7 Usingt 7 4/head7 4/1/ml7 Lhody 7

First hello 2 popul sthen hello 1 popul. in head section. appear sit will read line by line b/c NewFileTs (link with html). File Thew File 7 script-js (any name). Now link of Now Seawer script file. inspect In console window. emoris shown <1 -- < 7 -- 7 comment out. alert ("Hina"); defer = altibute ... last cup read of get <h17 Helloworld </h17. X -- End of lecture#1 --- X

Class 2 21. Jan. 2024 (Monday) Javascript voriables / Rules Declaration & Assignment Vociable. File index. html Make folder Istubrials voriable and data type. 18 index. html <body> (script src="voriable and date type is"></script> open comos le Chit von'ables </hl> a = 3434. Container which b=56 stores value. 56 (In memory, a+b. space is 90. Seseved). Press F12 -> concole will open old vesion <h17 variable 4/h17 Zul7 Lli7 Vos before 2016 he use Var (rejected) ES -> modern JS (let + const 447. Kli71et Kli7 alizeonst 5/117 

Js Sle Var a = 6; vara=6, Vora = 5; let a= 5; let a=10; benos a one store of our (enly once let sound) Const abc; let a=5 a= \$10; a= "hello" Const Vora=6 a=5 const pi = constable; "nausbeen"; Now const abc="hollo":

abc="hi"; it will give envy to our ilu 5 change Ivalue or il il our let X const ake = "hello"; let rame = 'heia"; groenos.

name = 'sumaira";

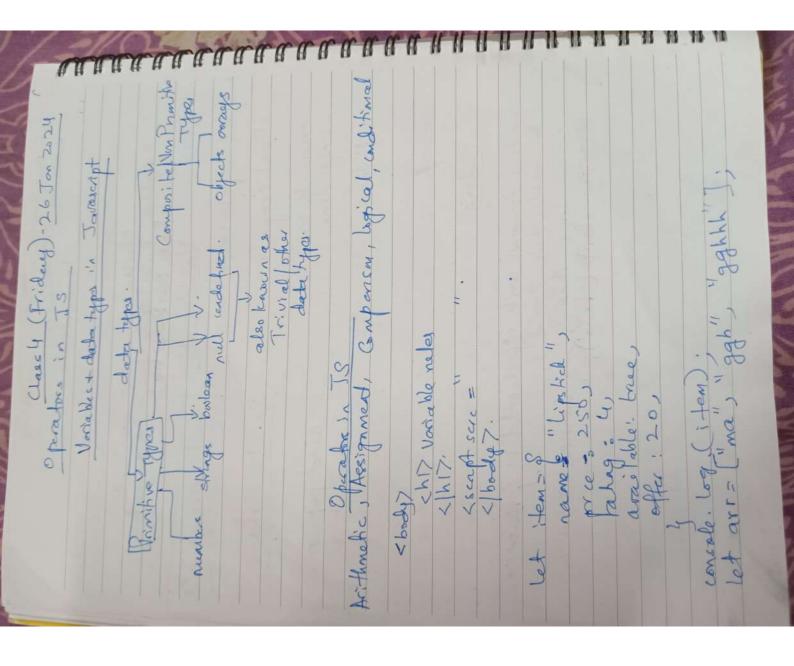
console.log(nam); Now now name (sumaira).

IP DE PAPERWORK

data types hunching, boolean, rull, undefined, avery, objects, if doclare it variable variable rules: case seasitive. const abc = "hello"; let Abc="hi"; Let as\_\$4; [I can declare my variable ) small or large, number - il stort de number of variable on by stort de stort variable S (underscore) let \$ -, h, h; let - ih; let a 5 dd g - \$34; it or years vonable of data type let age-"45"; console log ("agé); age 45 Console log (age);

Let full Name = "sormad"; - string console log (full Name); La conel case Voriables, Rules de claration + Assignment Princhet Non Principie) 1. Revision Voriablescope Print / desplay ints \* Block scope von able Vonable Revies \* alobal scope " Connerts in TS. alest popup. omultiliere /\* \*/ Cbrl+/ Coding document write ("world"); & Browser wordow alort ("hera"); I PAPERWORK

only letters, digite, underswie and \$ is only a letter, undersione, or \$ should be furt aborater. · Reserved names connet be unable reacs. Nosiable name or case senitive; " " " " " " " " " Boolean (True ortalic). Vac ables + dade types (1) Vooriables one contained for deather Concole log (" Nous las "); full Name = "Tony", j console. Log (full Name); Vonable Rubs; Log (18); 15 Fellow of = mulli radices = 14; age=24; price= (mo;



Console (Eg (type of are).
let a= 4.
Loursle lag ("a=k"1, ka);
F. Worw .  Reach on welcome ()
2 december unit ("welone");
Suretion sum (a,b)
let c= a+b;
Actor + 1 a+6, " 4/br7"). ///4.
operatur at 6
Comparion 1.
Colde hinsel ".
addition subtraction, ix, is Increased, decement
et a= q' / o/f
(a) "- 1 b) "- 1 a-b) "(2/br)" (b) "
9 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -

o Modelles, exponentiation, Incoment, do cen-expressions and b- speads. Usad to peform some operations on Arithmetic operations on couste. Led (" + b = " ) a+6); Operation in Is classely console by ("a+b"); 08 Let az 5;

Combension Logical, Conditional,  = = (charles) = - (coqual to 8 datable)  > - (not equal to 8 datable)  > - (not equal to 8 datable)	let a= 2; // nueruba a==b true a==b true a==b fallse.	JS (clear 6) 31   Jan   2024. Marksheet assignment.	
---	--	---	--

Sscript > Vos name = prompt ("Enter gover name");

11 roll = " " 11 nember " class = moths marks thrdee Phopois Chem; english ( ) Vor obtained\_morks =parseInt (math) + parse Int (udu) & + & parseInt(physics) & +. do coment write ( at by 6 hr 17"); obtained marks 16 + 16 "<br/>
br/>); If (percentage >= 80).

Solvenent write (" Your Conde is: A-1").

Solve if (percentage >= 70)

Labour ... (... A"); 7=60

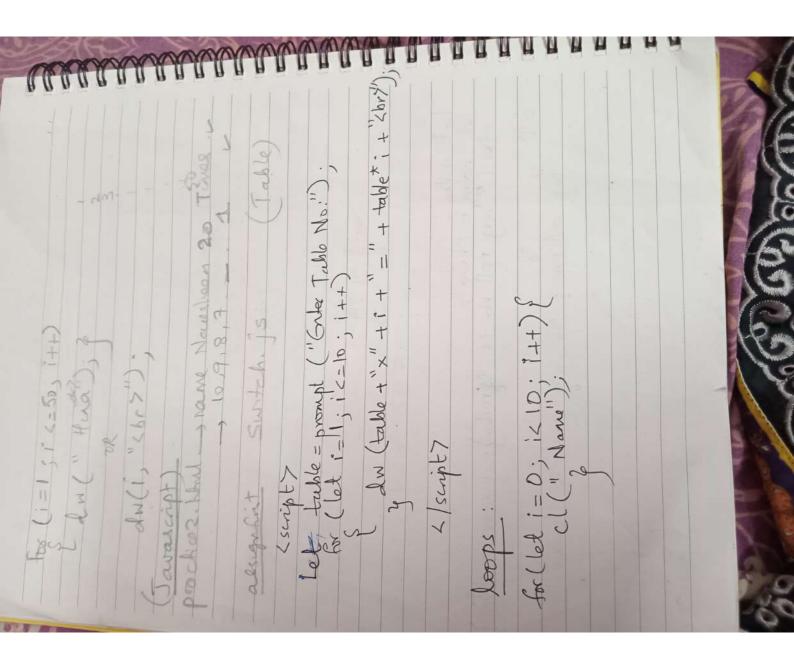
const my Number = number (13); console log (my Number); Class 6 Morlesheet 31 Jan 2024 Let mism2, m3, mie, sum, avg. m\_ = 90 M5 = 84 Sum = m1+m2+ . +m5 course. Log (" total marks " 16, seem) avg = sum con. log ( average gava) if (avg 7=90) & 2 consile. log ("Gade A") else if (aug > - 80) of cons. log (" avade 5") else if (avg 20=70) of cour log ("Carade (") elseif (aug 7=60) o ed 4 else ? course. Log ("fair!") 4

String arealism + monipulation:  Templete literal inhodoccal is; It EE  Joe mon florible way to wonking	Let str = "Helle"; coding.	let str- 'Helle';  olw ('holle & (new)');  let str- "Helle 'low ere yord';  let str- "Helle 'low ere yord';	Ju (21); 1 ?

let str - "Hello! how one you?";	dw (str + str); off	hello! how one you? I am learning Javaning	dw (stx b+" b" b+s b2)	let strz= let strz= let strz="world"!	Whenvar=str. concat (stry +str3);		
	20	<b>Y</b> )		37//2			

Let st = "I an leaning Jamespt"	Now str. bim Start () servave spuce from start + ed. str. bim endl)	Str. leppelase () Str. replace (''javassipt"), "hhul") seachwood  4 replace core servitive.	st. includes ("is") seenth cord is   if not found return -1 (True or false).	dw(sb.bim());	dw (str. replaceAII ("leoning"), "reading");	
-						

Is Sovet class class f. 2 Feb 2024 Strings, loops. String Manipulations. keej in keeghoard) Switchysteng, loop 5 Feb 2024 et rollno = 56; let nam = "hero"; dw ("my roll no is \$ {rollno} my name is \$ {man}); my roll no is 56 my name is hera I role end 1012 PAPERWORK



Let arr= [34, "Sadia", "Jara"]; 20 for (let i=20; i >=1; i--)

{ dw('(br)"); } arr. unshift ("css"); add item in stort push ("Wml"), item west item. shift () seniore in start. Tenuve 3 difer 1 add & item in its place. . pop () remore item from end add any item in last of array Lenis ve item from end. dw (arr. length);

book. index Of ("Under") // to beid anywords
position in array. book. slice (start and, end inde); //clon't change in oxigenal array // return a stice piece of array piece of array // next). Madd, removex replace. Let an=[1,2,3,4,5,6,7]; an. splice (2,2,55,56); On- splice (3,0,44); aw. splice (213); // don't celd only delekten 2 index 1. 3 items delek.

Method + Loop/ For in / Whete / do whele loop. Let array = [2,13,56;"hena", 78,65,23,89]; How (array length); dw (array slice. (16)); dw (slie (3)); 3,56, hena, 78,65 dw (oray. splie (2, 2, 4); Object Store mæltipb vælue. const student = { ranc: hia", rollio: 36, class: for of for in loop pont odd to of this oracy = [
using for loop 7 bg.

Class II (functions) 14 feb 2024 dw ("hena", tollpper Case ()); function abc() } We can callforeting dw("herak"); (body) dw ( 111 ) Lbothon andick = du (11) "abc()"7 cledre dw(") 4/bietron > du (11); forab((); OPP

abc(); function about s'); ab ((); hera hera hera - hera - hera (10 times) Is fonction is block of case designed to perform perfeculer task. It is execute when something invokes (all-Renchion de fine Frenchion could (call) function frame() · frame () j Thouk of wodes

14 leb 2024 Class 11 Frenchim definition promotes Function call frame (org 15 args) Le function frame (p1)p2) frame (2,3) 2 dw (pl+p2); let Let assz sum(2,3); cl (ans); fre function sum (pl+p2) let cens-pl+p2; reher ans; abc(5,7); function abc (plp2) of dw(p1\*p2); //35 but schen it. went to print is

let a= 6; let 5=8; //call let ons = mult (a, b); 3 Auction define foresion met (p1) p2) ( let ans=p1\*p2; refumbans; dw (ans); Also we can declare several times // frenchion define function mult (pl) p2) 4 let ans = p1 \* p2; return ons; 10/P 4848 let azb; let b= 8; 1/ call let ans=mult (a, b); dw (ans); let abczmult (ab); dw (ans);

4828 Repeat A let ab (= mult (7,4); dw (abc); Arrow Frenchion Const frame () = > } fraind Cons mult = (p1,p3)=> 2' let ans=pl\*p2; 4 return ons; let a=90; letb=8; let ans=mult (9,6); dw (ans);

I: Practice Questions 17fch 2024. vouels Olet strag = " Evowe (abjeitou); frenction vowe (str) Let i = 0; // i used for countrag vouck for (let char of str) if (char === a' || char ====e' || char ==z'i' || char ==== o' || char ===='u') dw (char, "Lbr?"); for of loop one by one! - K & B! 3 dw (i)-, II: Table frenchion table (num) for (let i=1;i <=10;i++) { 2 dw (" ( & Enum ) x \$ ( i ) = \$ ( num \* f ? ) Imprompt ("Entertable no."); let tobro z prompt table (table table); let table o tables

The object const student= 9 name: "Hia", wellno:41). class: 71 1 is Pass: brue, for (let key in student)

{

dw (key); I dw (keys": b") student [key], "(bn)") 1/2 Away: let citz ["Koachi" "L", "P", "O", "5", "B diw (cit-length); for Clet value of cit) dir (valus"(br)")

dw (cit. pop(), "chr?"); dw (cit, "Kbr?"); dw (cit.shFt(), "Kbr?"); dw (cit, "Kbr7");