```
Java-script Cheats heet
         Van age = 8; // number
Dataty pus:
         van a-toue; // boolean
         van a; // undefined
         van b= null; // null
                           10 10 , VO El W. 84 " 1011 Del. 3
     van name = "Vishwas"; // string
         Var name = { first: "Vishad", last: "Mark"]; //object
                              Just Owner
() peratoro:
         ナノーン ノン・ハン キュ サカンコン つの きゅいい
   Bitwise Operators > 2 AND 521 (0101 20001=1)
           1 OR 5/1 (0101 2000) = 5(101)
                    NOT ~5 (~0101 = 10 (1010))
           1 XOR 2 1 (0010 - 0001 - 0011)
           2< left 5<<1 (0101 << 1 = 10 (1010))
                            (0101>>1 = 2(10))
           shift 5>>1
    Strict Equal > a===b
    Strict Unequel -> a! == b
    typed - stype of b //dyper (string, object, ...)
      for (van 1=0; i<10; i+) ξ
        4 time solver (" 13 ) I Tudior
       var 1=0; 19/1/11 11 11 11 11 11
       ( ( 10 ) ship ( 100) ) ships
          3 the company of the state
        Van i= 0;
```

```
Strings: van vanne = "Tustar";
van Jen = name.leugth; 116
        nome. indexol ("Dh"); 1/2, il absent -> -1
        mame. slice (1,4); // woh
           hame substring (1,4); // wsh
           name substr (1,4); 11 usha, 4-> length
        name. tolower(or(); //tushar
        vanu. tollpurlerell; 11 TUSHAR
           hame replace ("b", "t"); // Tuthou
van a = "Mello World";
            a. split (""); // ("Nello", "World")
    a.trim(); // removes whitespore from both ends of
   Arrays: Let an = ();
             let fruits = [!'apple", "barrara"];
             let numbers=[1,2,3,4,5];
             console log (fruits (0)); //apple 1 - 10 1010)
             Console log (numbers length ); 1150001 - 0011)
            fruits. push ("apple"); // ["apple", "banana", "apple"]
   numbers. white (07; 1/0, 1, 2, 3, 4, 5
           fruits. pop(); // Removes last element
College of the
            fruits, shift (); // Removes first element
      splice (start, deleteround, item); item 2);
          y 0, no element removed
      Kemoring elements:
              Jet founts = ("apple", "barra", "chevry");
Januts. splice (112)
                 Console lag (fruits); // ("apple")
```

```
Adding clements:
            fruits. splice (2,0,"grapes", " kine");
            console log (fruits); // ("apple", "bonora", "grapes", "Kiwi", "clury")
 Keplocing elements:
            fruits. splice (1,2,"mango", "pluopple");
            consol. log (fruits); // ("apple", "mango", "pineapple")
  Store removed elements:
                let removed - fruits. splice (1,2);
                console log (removed); 11 (" banana", "cherry").
       fourts. Jor Each (Funtion (a) &
                   Cousale. Log(a);
       fruits. reverse ();
        numbers . sort ();
       numbers. Sort (function (a, b) & seturn b-93); // des cending
                   (fuction (a, b) { return a - b}); // as cending
        fruits. join ("-"); // apple - banana - chevry
      Var a = arni concet (arriz, arriz); (arri, arriz, arriz)
Multidimensional Array: let not = [[1,2,3], (4,5,6), [7,8,9)];
d forme going consoled g (mat(o)(i); 1/2
  Copying Array: let at = fruits. slice (); //shallow copy, whier reference
           let a2 = (.... fruits); // shallow copy
 ((cdimf) (fruits), 402T) sanse (ISON, stringt) (fruits));
                                                    // deep copy
E. Franstien oil I vindlious
                                                        complitely new
```

```
Math:
        Math. round (4,5); /15
    Math. pow (2,3); 1/8
     Math. sqxt (49); 117
  Modh. aly (-3); 113
        Hath. ceil (1.2); /12
    Moth. floor (1.2); //1
        Math. sin(0): 10
   Math. log (1); 1/0, when log
Math. min (0,3,1,5) //0
 Moth wax (0,3,1,5) 115
        Math. random (); // btw OA!
    var e = Madh. E /
Errors:
```

Range Error > Out of rough Reference Error -> illegal reference has occurred Syntax Error -> some syntax error -> consol. Lg ("hi) Type Groon -> dype mismatch URItaror -> An encodeURI error occured of Layout and Ist diguing

which is the same of the same · program: see, you program as own it is making the second maries . And appropriate for fre for the standard by the standard of the standard

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