GNG-Javascriptvar name = "Ginny"; name [0] = 6 or name. charAt (0) = 6 1 backslash OVI In newline It tab null - value of null undefined- does not have a value 3 else & 3 else if E 3 else E 4 34 and or not AND OR T Nan = F TERNARY OPERATOR conditional? (if true): (if false) var color = yes ? "green": "red" eats Plants? (eats Animals? "omnivore": "herbivore"): (easts Animals? "carnivore: undefined

```
GNG- Java Script (cont.) -
Switch (Coption) &
                              will fall through &
   case 1: A code */ j execute all cases
  case 2: 1x code */;
  breaki
while (x <= 10,000) & 1. Start->var x=1;
       1x do something */ 2 stop = while (x <10)
                             3.nex+ -> x=x+1
 (for (var = 0; 166; 1=1+1) E
       1x do something */
 3
for (start; stop; step) {
     // do this
 nested - for (var x= 0; x < 3; x = x+1) {
            for (var y= v; y < 2; y= y+1) {
    console, log(x+", "+ y);
                                 (0,0)
                T O T
T I T
                                (2,1)
increment & decriment operators:
                       x=3 x = 3 x = 3
     X-- X+=3
```

GWG-Javascript (cont.)parameter function function Name (variable) & 11 do something return; 3 parameter - variable name, appears in function declaration argument - value passed in (as parameter) when function is called HOISTING- Javascript hoists function? Var declarations to the top of the current scope. -variable assignments are not hoisted function Expression - function stored in variable *not hoisted * does not need a name var catsays = function (max) & 11 code here callback = function passed into another function function helloCat (callback) & var cat Says = function (max) & var cat Message = ""; for (var i=0; icmax; i++) { return "Hello" + callback(3) catMessage += "meow"; 3 return cat Message; hellocat (cat says)

GWG - Javascript (cont) -

closure: anonymous in line function expressions function movies (message function, name) & message Function (name);

movies (function displayFavovite (movieName) & console.log ("my favovite movie is "+ movie Name); 3, "Finding Nemo");

array. length (string.length)

array. push() -> adds elements to end of array

array. pop() -> removes elements from end of array

array. splice (stanting ex, number Elements to remove,

elements you want to ada)

array. reverse()
array. soA()
array. shiff() → removes 1st elementarray
array. join(")

myArray. for Each (myFunction);
function EmyFunction (elementy Index, array) 43
donnts for Each (function (donut) &
donut += "hole";
3);

```
GWG-Javascript (cont)
pr var new Array = my Array. map (function (element) &
                           element = element + 100;
                           return element;
                      3);
arrays in arrays:
  for (var r=0; r cgrid.length; rtt) { *r=row
for (var c=0; ccgridCr].length, ctt) { *c=col
console.log(grid Cr]cc];
3
 var grid=[[1, 2, 3, 4, 5],
[6, 7, 8, 9, 10],
               [11, 12, 13, 14, 15],
               [16, 17, 18, 19, 20]];
Object - var umbrella = E3;
   var umbrella = &
                                  open: function () {
          color: "pink";
                                     if (umbrella, isopen === true) {
         isopen: falsé
                                        return "already open!";
                                     3 else E
                                        umbrella isopen = thie i
umbrella isoperi dot
                                        returned "opened";
umbrella Crisopen"];
                                    33
umbrella. open();
* don't use numbers as first character of property
* no spaces or hyphens
```