**New Javascript codes**

document.getElementById("divParent") equal->  divParent.onlick

x == "someValue" &&  alert('hi')

**JavaScript** is an interpreted **language**, it is read **line by line**

**JavaScript Filter ()**

const words = [

"spray",

  "limit",

  "elite",

  "exuberant",

  "destruction",  
 "present"];

const result = words.filter(word => word.length > 6);  
console.log(result);  
*// expected output: Array ["exuberant", "destruction", "present"]*

**Match()**

var str = "The rain in SPAIN stays mainly in the plain";

var res = str.match(/ain/gi);

console.log(res);

*// expected output: Array ["ain", "AIN", "ain", "ain"]*

**Splice to Add or Remove element to Array**

Array.splice(start , deleteCount , addItem1, addItem2)

Note: deleteCount starts from 1, if 0 will not delete items

Note: start with minus => count from right side

Array.splice(0, 1) => Remove from 0 index one Item

Array.splice(1, 2, “name”) => Remove from 1 index two Items and insert name

Array.splice(-1, 1) => Remove last one item

Array.splice(-1, 1, ’ashta’) => Remove last Item and add ashta

Array.splice(Array.length, 0, ’ashta’) => Add ashta at the end of array

Array.splice(0, 0, ’ashta’) => Add ashta at the Begin of array

Array.splice(2) => Remove all elements after 2 index

Array.splice(0, Array.length) => Remove all elements

Array.splice(0, Array.length, ‘ashta’) => Remove all elements & add ashta

**Array.slice(begin, end) => Remove Elemnts From Array**

Note: begin start counting from 0

Note: end start counting from 1

Note: end with minus => count from right side

Array = ["Banana", "Orange", "Lemon", "Apple", "Mango"]

Array.slice(0, 2) => [Banana, Orange]

Array.slice(1, 4) => [Orange, Lemon, Apple]

Array.slice(0, -1) => [Banana, Orange, Lemon, Apple]

Array.slice(0, fruits.length)=> Get all Array

Array.slice(0, -fruits.length)=> Remove all Array

**Javascript event delegation**

**المشكلة:** لما بعمل اي event مثلا click علي element جديد اتضاف بعد ال load مش هيعمل الاكشن

**الحل Jquery :** استخدام on

**الحل JavaScript :**

document.getElementById("buttonParent") .onclick = function(event){

if (event.target.nodeName == "BUTTON" ) {  alert('hi') }

}

**JavaScript Hoisting**

console.log(x); *// Error because we not define x*

هو ده ال hoisting ان الجافا سكريبت بتاخد اللي انت معرفه تحت وتخليه فوق في ال top script

بتعرف ال  
value = undefined

Function: بتتحط بقيمتها اكنها اتعملها call فوق ف ال top script

console.log(x); *//will print undefined*

var x = 'value';

console.log(x); *//will print value*

حل الموضوع ده اننا نستخدم let, const, use strict

For example

console.log(x); *// Error and stop*

let x = 'value';

console.log(x); *//error too because the complier will stop*