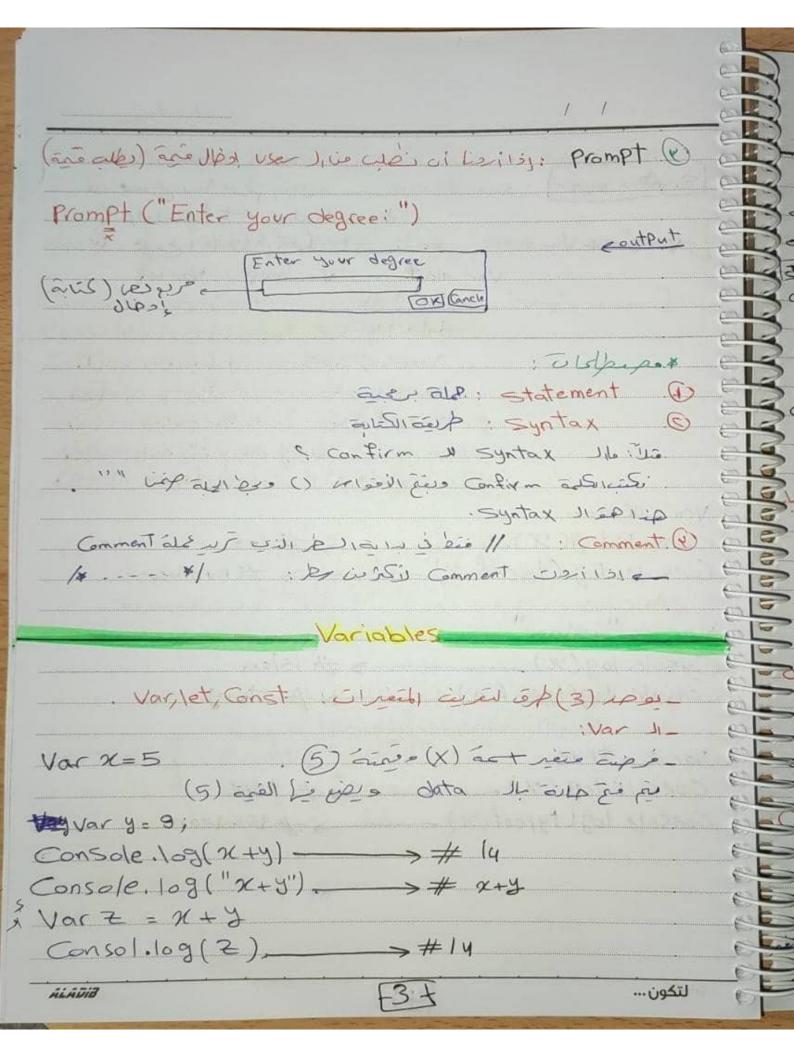
(lec-1) : JS JI JOLIA +- X · Web eyell. (1 (react native flutter, ionic); Mobile (clientside, Serverside), Server (X . 0 desktop Apps (0 هِ أَعَالَنَ كَتَابَةِ ال كَلَّ عَالَى ا in ly it tags I in it is will be will be head I've to body 11 af Gopes Esticate CSS IN Lecks: body hartis Co escript are="15/acript.15" >2/seript> الفاكت عراضا وbady الناعارة من المات تم عالى (tags) النام عنه منفي تعريف عالى الحوال قبل لغريف الروع . chodys escripts --- c/script, external fike & نفع كوداريع في كرية ال واله وا معتون الرق في). wester output it are given (8) Il seles it to Il ques cet to ال عنوا نريد طهاعة حيى : document. write ( Sally marouch ) Ulapoi. Atml 11 ary Stoly and (" 11) يُضِع كما حمد

11 à dieis ib trialy 1 (161). : alphajessies stear mil chodys ediv id="div" > </div> 135): document get Element By Id ("div1") . inner HTMI = "ahmad" id=div1 à vill reidicial et plat jaig del acisi el ahmed acsol : Console 11 is ent of topilal. ine açõe de che ck de do de de console 11. inspect écie le continue. المارية المارية الماري ومن عاملامة داميا . Dei Gonsole In Getill. الا أردنا أن أخرج من عمال عادة alpain [ok] 11 sapa juit (aliv), alert D Des vis it of he alent ("Pay attention !!!!") tosteat (Pay attention! (Ox) in user 11 ziz Livilia, ( St. Zim); Confirm (C) FIX (Carcle) sole in " co u Si Confirm (" Do you want to register on your web?") cout Put Do you want to -(OK) Fancle) عِنْدُ مِنَا لَا فَا وَالَ اللَّهُ عَنَا اللَّهُ عِنْدًا لَا اللَّهُ اللَّ



- قواعد ترجية المتعيرات: ای منوع نبدا برتم . Syntax evior ع) جاول سَا بام يدل على معنى . , Var Console, Var Var in: 5: 50 20 The lite 18 Var alert, Var map, Var log data typs\_ 100,6,5 : number a, b, sally -- ; string [2) true, false : boolean [3] allay, object, null ly is un defined (5) Var N=100 >#100 Console.log(x)\_ > # number \* Console, log (type of x) data lies -J Var x="islam" 5 Console log(x) - > # islam ># string 5 Console. log(typeof x)\_ > Var x = trye => # true Console log (x) s Console log (type of x) - + bodean

ens data livercipileic Sein array 11. rapic cutilios line object 11. 00 Varx = [ "ahmed" "Sally", 100, "siba", true, "shimaa"] Console. log (x) # ["ahmed", "sally", Console, log (typeof x) # object Console. log (x[3]) # Siba Console. log (xto] # ahmed Console log (type of XII) # string Console. log (type of X[2]) # number Console, log (typeof X[u]) # boolean Mes mull sobject sarray Jijabelle : (object) Toiseed index JI. (a) I it im index JI. . O wo wy grif of halpes; evell deb length 11\_ ال السال : يعم في تحيل السال : Var α= { name: "ahmed"; المعادم و age: 26 ; ? Console. log(x)# } name: المرويح 51

Console log(type of x) # object array = and access Javi - 121 131artay 11 - Tust-1 · العقاللغاس ex x[4] index wissi 1 object 11 Gard access JE of 121151. x act of (Pilane in the Console.log(a. City) # mansoura object 115te Console. log(x, name) # ahmed. < object okey [ index] array : null 11. Var x=60 W= OUI Console log (x) # null Console. 10g (typof n) # object / (20) · Sex soley as by (Var) Tex- Sie acione inc. Takie (0) 11. . (a) tro ails Televisle null use ory null & That we is I undifined (5) Console, log(x) == #error Lister 64 63 العادي الخطاء Reference Eller UP/ UDD لتكون ...

1 -1 --Var 2 , 2 å tres copiels datallels Console, log(20) -> # undifined يعنى لايعرى . الجر الايتفل فاص الله في طال قلتله الساء عد . Console.log(typeof >e) \_\_\_\_ # undifined ieiel reit of an (unclassified) (not rated) value is type i and لتكون ... שועהוה

(lec-2) Js oper ators. Harthimatic operations: +, -, \*, /, /, --· stipl del us es or yeard Var x = 50; Var y = 2 Varz= X+y console. 109 (2) - 25 Var x1 = x1.8 -> # O y lde x ans of. Console lug (2) disse = 0 - Dede and it it is another (1) carried (1-2) the and it is used ¥ الزيارة والنعرمان Var ol= 40 1 ++ X Console. 10g (20) -> # 41 يم الإلة الح ١٠ a Va ( y = 50 9 4++ Consde log (y) - > # 50 Deve 5 (y) and be 11 15 Console , log (y) -> # 51 verblue is Li x++ : Post increment + + x : Pre increment

Var x = 6 y = x \* x 3 => Console log (y) -> # 216 (\*\* -> 6^3 >6x6.6 (20 Uit 1 = 1 (1 V) Dlus equal = , += , -= , /=, x=:/= plus equal I mines equal Var x = 10 X += 50 Console, log(x) -> #60 X+=60 -Towns = 2 + 60 x-=50 -> x=x-50 Var x = 50 ( 0,000 ( 0 ) > re assignment empaissibstates R==40 \_ > Comparison ( airle.) Var x = 80 -- }else { if (x ==5) } かないいけら (dispersion) aprove user Juli : , tially die de \* المادرمية 85 دماندن مي مناز - د ALADID لتكون ...

+ (ye by ide p), por suiv ( ) and we design one by.

Jest as (+ rye & 2 ) + rye and ( ) = witch Case Switch: Check Values not range &v = , 508, Line ifielse: Check range ( 1:5 Unissue) Var 2 = Prompt ("Enter your degree:") Switch (x) } Case "a" : Console.log ("Car") break ; exactioneds & Case "b" : Coscle log("bic") break; default: Console. log (" ors") } لعرما وقع المرون defaultion A : user 11 disi de ix . (a) ile dis aixe switch six. Function\_ icuses ( - ( - ) Suit height function si cin is : function sie is in ALADIA

functions = + Parameter institut function Code! (x, y)? Console.log(x+y)? : function! sleer lows. Codel (10,20) arguments

function 1 arguments

function 1 arguments

function 1 arguments

function 1 arguments

function 20

arguments

contained arguments

included appeix Parameters de enfunction à assell (X,y) libi Ofunction declaration (i) function tradition. 2 function expression i Var Code2 = function (a,b) { Console.log(a+b)} (reis function II pro ever 1 JS JI 87 My 61 are We 2 + a certi dis / elo 423 2 SIFE Self Invoked Function = III FE Immediately Invoked Function Expression (=) En Eabsulation -> . Its dels fun scili cirlial alocition of all cicis see to depend of · ajes es jui es or a ligio (stear) con leaged det function : [itel])

function code3()} Console, log("I slam")? trigger function (i) calling function 11 Code3(). + ligger Stille liv de codal Este 151-: slever) un dé all function Mei-(function code30) } console log ("Islam")}) () Calling of trigger 11 die dell oreal. Calling of trigger II desy i () Garagella こがしいのい ららいいいい Encabsalation IIFE @ SIF : EP JULIII P لتكون ...

Jec-3) Js Events mouse It apid suctil well with the Events: Click dbklick mouseenter mousemove mouseleave sould isper pover in who do is price <div class="div1" id="div" > </div> < button id="btn1" > = </button als dipiteis \* document get Element By Id ("btn1") . on click = function () } do cument. get Element By Id ("divs") . inner HTMI = "islam"} , pue (divs) il de la cisa (btre) il, ide écip à leux cisa. \* do cument.get Element By Id ("btnl") . db/click = function() DOCUMENT. get Element By Id (" div1") . innar HTMI = " islam" } and a soul woll aprip beight \* document.get Element By Id ("btn1) . on mouseenter = function is document.get Element By Id ("div1").inner HTMI = "islam"} enterville will bill hover II wi: mousenter \*document.getElementById("btns"). Onmouseleave = functioncis. document, get Element By Id ("divz") . inner HTMI = "islam"? 1 il on mouseleave leave f enter 151 MINDIB

5) FE CIL JES E STORE : anmouse move Spleds - shes(for) 1811 ( sies . function ) vin fle · et of Mes as & sold in in apr 1 as & MALI. : Shew sold java script IL als Elu or est : as la abox الطورة و المعنالة الم (function I vie ) de ilu der @ ( sise) . function 11 deines oriliciale @ مالاه الكود الذي في العيمة الله عن المعين الكود الذي في العيمة الكود الذي في العيمة الله عن المعينة الله المعينة المعينة الله المعينة الله المعينة ا Var btn = document.getElementById ("btns") Var div1= document.getElementById("div1") 3) Sup fra lide Toba iclo function of () & divisionerHTMI = "islam"} . @ Lated fundein oth Edini ill btn.onclick = x; btn.onclick = x() : The de ci (aus about) isty ine ous function lier ( onclick · function Il shark ales 11 ci >1 trigger letup (= X1) cersisi cue lix-Julie = Calling 116

- adique o caipe is le éléptiques
Var x=1
Var btn2 = document.getElementById("btn1")
Var div1. document.getElementById("div1")
function code () {  divLinnerHTMI = 2(++)} lainte () ()
divinnerHTMI = 2 ++15 Laintib Cointib
btn. onclick = code;
1000-1000 Carelle Taken desection
19 (1) 9 gles 2 adeip Joi : 15 (-
لفلف ++ (A) - برطع (A) وسطن (B) و (A) + الله الله الله (B) و (A) الله الله الله الله الله الله الله الل
bto1. onmouse leave = code; comouse leave = code;
ielo aleiple 15
Die Strand
btn1. onmovsemove = cade;
. Ocionals (btn) de strigelado.
us dispille) Keyboard It amplies Events 11 *
L- L Keyboard
Key Events: Keypress Keydown Keyup
الأنه بماعة
att 4 pe e de de la consiste l'as [key] mile -
(input) lake.

لتكون ...

ALADIB

<input type="text" Id="input1"> Var input1 = document/getElementById ("input1") (( طول ما المناعظ )) مناون ما المنع (مبل ما المنع المن input1. Onkeypress = function () } Con Sole, lag ("islam") } es ipuisais) عَنْ الْأَلْمَانِ عِلَمُ الْمُولُ مَا اللَّهُ اللَّهُ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ inputs. On Keydown = function()} 8 Console log ("islam") ( 8 aparolo lène la voi) sul és sulimbe: Keydown \* إلاد وك مع مورا سفد دك لعظم علي فاع لع الع الع العالم العد والع 3 منيفة عرة رس تثيل ايدل ويرجه input1. on keyup = functions? 0 1 200 00 rais 90 casi 2 Console log("islam") } by & cheip 131 ine . I al disbosi Keyup \* Consdell Jule ien les control de la consdella ا کتا بنا ایدی بیکنر ادا islam (16) (5) here eshe dip 151 The Keyup Fire & وطال إليف مساها كوز جينه بالفلط - عاسف ها العالم 1 sie for land does bisp Keydown Aldes lood & Keypress I " up i cros

Window. anload = function - - This UZ window Jacople del one > window. onload = function() } - جمع اجنانة الأحاث: onclick, on keypress, and blotick i on+ outrt 1) Expaire: add Event Listener @ btn.add Event Listener ("Click "Gode") ins Udein of Duch Cod tel dein of Duch (function) pt (on using Wie de btn.ondick = code; 11 of Best Practice plistelle de de la meles add Event Listener 1001 Tiela الذي بالمان . أكر من 35 / من بمنامانك TIFOR - مُربعة الكامة: for (initialization; Condition () update) } - ? b), d لع الفيمة الاسالية Semi Colon & 1.19 MINDIE

for(Var 2 =0 ; 2 <= 100; 2++) Console, log (20) } المع الرقاع ون و ع ١٥٥٠ De ses 1319 100 io pipi cos Judo: for Jude seup. \_ recel love e la reco consolerlog is al dir. 150 ++ 10 evai albinage 211, 13, 0 5 4612 - lisa visa O care la la sei consolelag. à éver circo à ciali éver con Consolelog(X++) ulo ce - & every of the (for) of some maintered 9 2 while mb 3 Varx=0 3 43/L(D) i qui e 100001 while (2<=100) 3 (21) (1) 3 Console. log (n() 3 Dais entre  $\chi_{++}$ ; 3 3 3 do - while i Var X=0 do ? (iei) JE1 Cansole log(20) 10000jept a 11 LLY O aips ext 20++; 3 while (xc=100) (20)

Bad For: for (Var x=10; x>2; x++)} Console 109(20) 3 die de 21 (2) ion 100 Model sile ? \$ lol / Slain = infinite Code in a Sillows ied (ail intelier) ail the (72) Slop is is in allo. SIS for 11 \* عناه عام مترم مترم مترم المعرب المع - الريافية إلى حال عن المعربيو class="list" attribute < 41/2 Price="50 000" clis iphoply fromax c/lis < 115 iphone 12 pro max c/110 price = 30 000" iPhon reno & clii> Price="15000" Samsung =/1is Price = "8000" <div id="Content"> cas ne sus beiplotes eldiva <button id="btn1" > Show Price < / byttons لتكون ... ALADIB

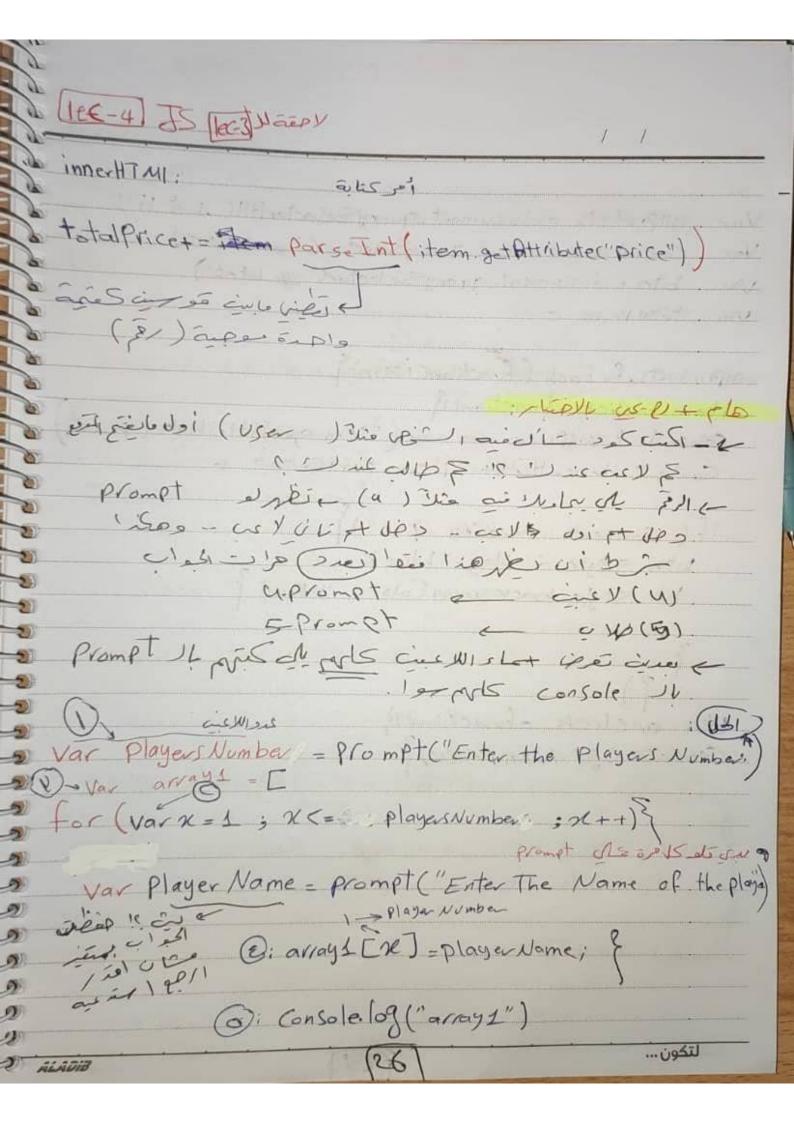
· query Selector ( الم تحت بلافال فني الم D [35] - Vine cols empile 11 ne sta 11 agulli المحال المحال c button id= btnd' style='display:none's 1 Var all products = document. get query Selector (" ¥ € يوم على كثرة لاستسعاد المعناجر: get Element By Id get Element By Class Name getAnimation get lement By Name reid + get Element By Tag Name get Selection C"#divi"Txis CSS die Stelliers guery Selector ا مسطنهام سعاد اکر مل وا ور query Selector All Var & prie of the W ) 1 de le circil. all products = document . query Selector All (".list 1i") Var Content = document.query Selector (" # content") var btn = document .query Selector ("#btn1") dir Il ot otro Eiosis eio i le sipitalio ( Wasting 0 all Products. For Each (function (item) } En Mars & Story هري ميناها es el es de les 5 Sit grains JS e abig Is is 3 (i) 73h (1i) 11. M als is & function itely so C. function لتكون... 

- item(li) gi 1 1 1- allproducts. for Each (function citem) {
2 - item.onclick = function c) {
3 - Content.inner HTMI = item. textContent Content Content (1) Jicks as.

item [] Jicks as. 5-3) in him Electronical > item I goid is sist الذي: مثلاً سي المِتري الكرون منتج من كلوالمنعن US it is & their Eups Isl, usus ip NI des & ينا القيم ويط المنتج اكبيه ما ناما بي هاي . الما مرى رفي المنها د كابي . ے تقرال میں سے مقیر سے والم (3) b). Content. inner HTM14= item. text Content Missballs . itemetertany piel = - is up (= · ien viie ner Spér Content (div) Il is as cine II, et = su # 00 0 مل العربية الد الله نفيه المرب الحقول الد والى الما المورد الما المورد الما المورد الما المورد الما المورد الم 40 الله فاكت من العم العم الد (في يمن ته تعيرة إلاقوام AT L if ( Content. innerHTMI != "") } Content les el ribt المحتابة وي بديكة btn. style. display = "block" btn. style. Color = "red" btn. style, background color="blue" 5 مدر کیس الحری کارس می کارس بیتاری وی کیستان می کارس می کارس می کارس می کارس بیتاری می کارس می Deliner ell son ال ١١٠ مع نا مي التكون ...

displayinone + display, block Conside I all cisics a: cil, x Varle é de supriere con este Var totalPrice = 0 Price 1, cli je con item es 11 10 despille مربع عابكود مكنت فئة الريم ال totalprice += item. getAttribute (" price") ) Sievine Siper alice (- functions sily vier 3 de mese btn-onclick = function () } Console, log(totalprice) { I dipper up Show Price 115 diese 16 calo. mais = @ & deip 1 6 ! 450. 15000 30000 10 age 5- out on out item. getAttribute ("price") à i à Sin. عاع يتعرف Ellis He : Le le de (=. total Price += ( i tem . gerAttribute ("price")) विवित्र पंडिश किक · mico a del Espisitio integen 1 molini on That e (2 M)

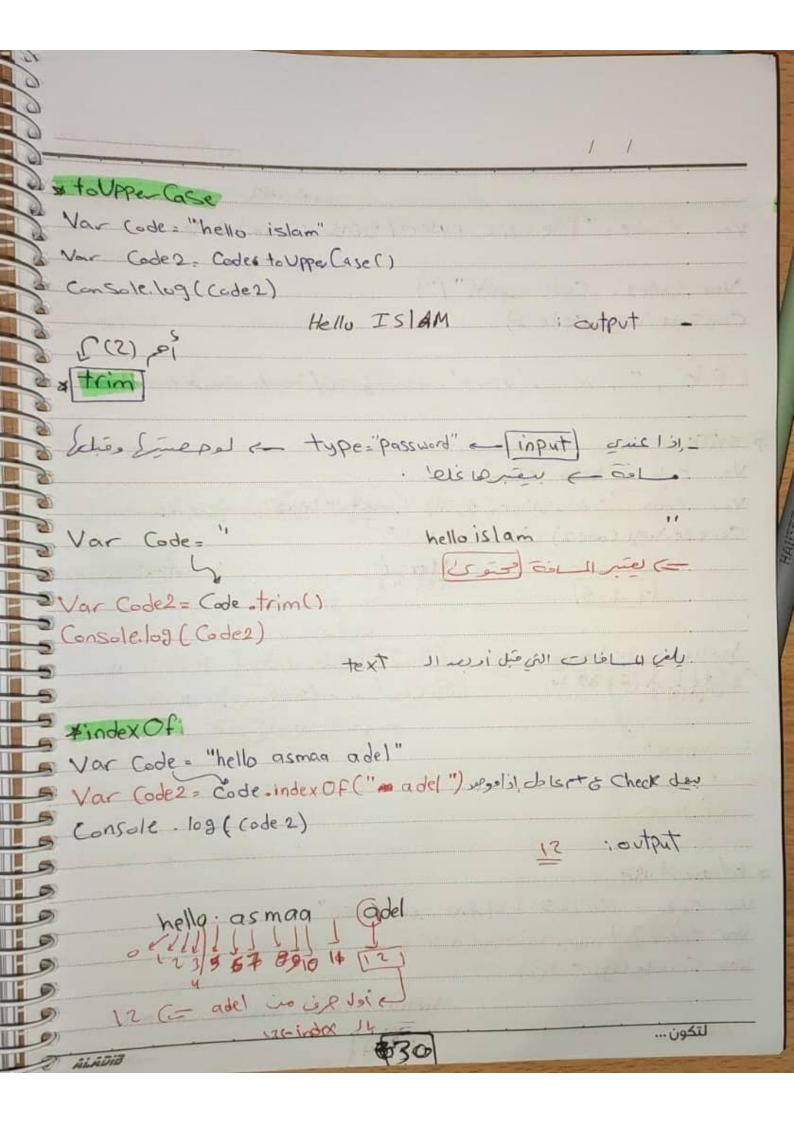
del 5 dell set all products = document . query Selector All (". 1 ist 1 i") Var Content = document . query Selector (" # content") Var btn = document query Selector (" # btn1") Var total Price = 0 Voir all Products. for Each (function (item)) item. anclick of unction() - total Price += + (item. get Attribute ("price")) Content inner HTMI+= item. text Content + if ( Content inner HTML !="") btn. Style. display = "block" btn style, background Color= "Yellow" ? land onclick = functions console, log( total Price) { (25

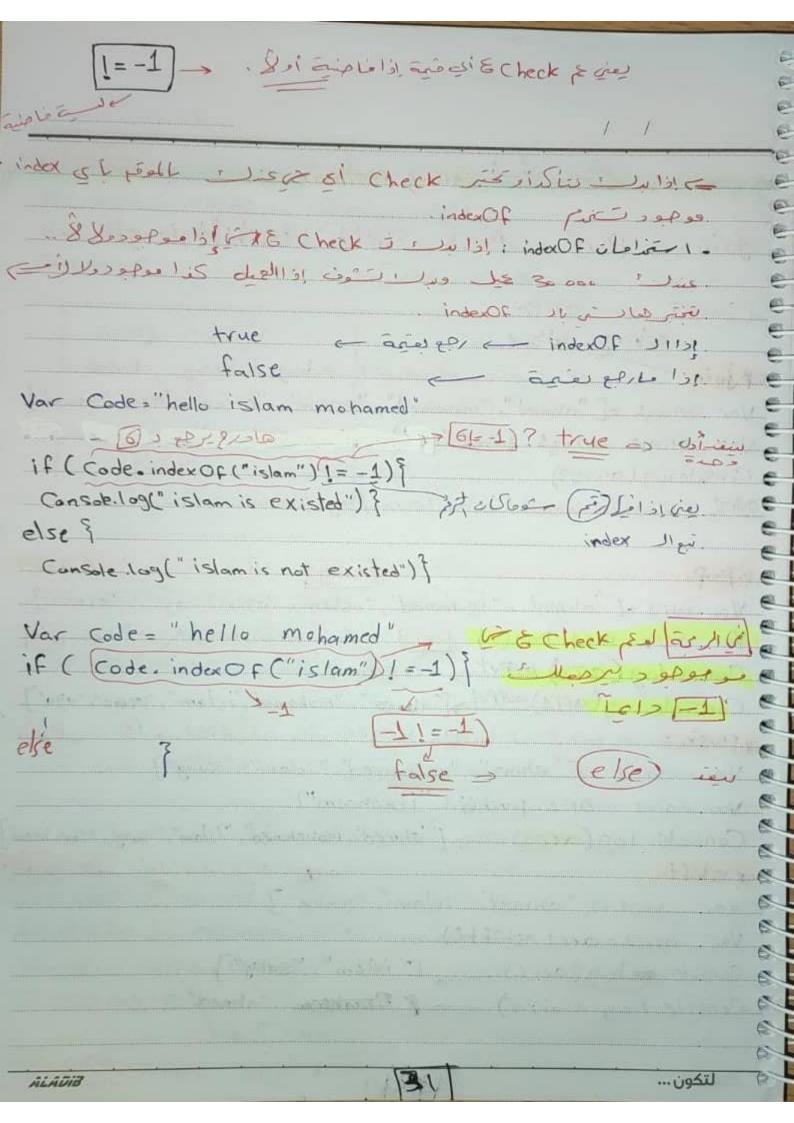


recordising allay appelle is object is array po in carray depen-व्यावन हिर्देश नाम द्वारा मंद्री मंद्री मं It asis je lad los si i abole. for It ablotie () En(a) II isin index II i) (X=V) # 12ec 1 es 1 Var Players Number = prompt ("Enter The Plyers Number:"). Var array1=[] for (var x=0; XK player Number; x++)} Var player Name = prompt ("Enter the name of the player") arrays [ DK] = player Name; } 0 Console log("arrays") Sally Sisi Sara man'E (4) apo el (2:51) Tambel. player Name = Sally arrays [0] = sany 2 player Name - Sisi 80 · arlay1[1] = Sisi 2 allas, [2] = Sara array [3] = manar array 1 = [0, 1, 2, 3] allay1 = ["Sally", "SiSi", "Sara", manar"] 2 لتكون ...

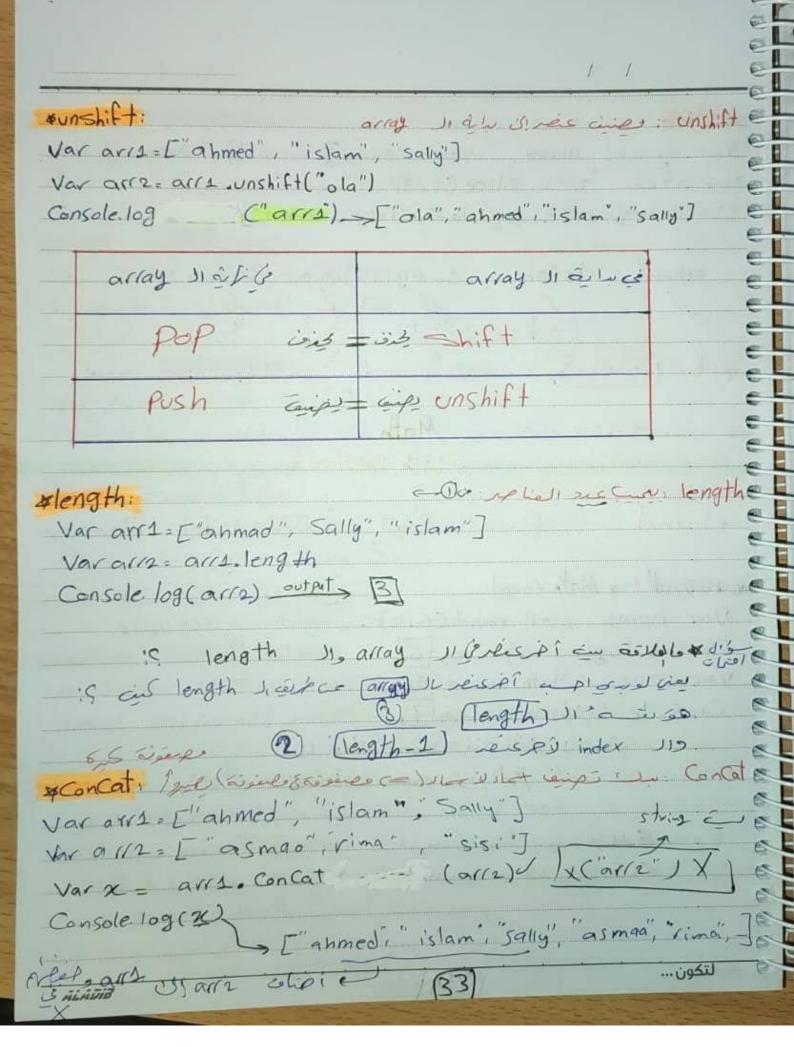
[ec-4] J5 = well string methods b 1) split index I index is as in int. 3 slice 3- to lower Case , to Upper Case - بلغني السيافات التي قتل ربعد ال text \_ 6 4 trim 5) indexOf the congil index all string are as a check Var Code = "Welcome islam" Var Code2 = " Code . Split (" ") 1900 a six 1619 Console. log(code2) ["welcome' s'islam'] Var Code3 = Code. Split("e") ے بيلغي الى وستم عن ['w', 'lcom', 'islam'] Well come love July is split signification 14 لتكون ... [28]

La URL Sià in. Var Code = "file: 1/c: / users/DELL / Desktop/jec27-s Var Code 2 = Code Split("/") Console, log(code 2) ['File: , " · 'c' · 'users' · -- ] (/) aidy sie is pringles! \$ slice: Var code = "hello islam" Var code: code. Slice (2,7) (index-7) !! (index-2) in as is is Console log( code 2) (1) in lyle -: output 17-2=5) hello islam index is string lice as LII ~ 2 6 6 6 7 89 1° is a me or il linder I is i stole E . = on out lindex) 1, inly 0 in cit on ch (- 2 is we عاسا فدال (7) \* toLowerlase Var Code = "HELLO ISTAM MOHAMED" Var code2 = tode . to Lover(ase() Var Console, log ( Code 2) hello islam mohamed: output. لتكون ... 291 HIMDIB





Array methods join POP, Push, Shift, unshift, lenght. Concat, slice 5 String Jobs A Join: Com serious string I array 1,03-Var array1 = [ "ahmad", "mohamed", "islam", "esraa", "aya", "asmaa"] Var array 2. array 1. join ("/") ("+") ("+") Consolellog (array 2) output ahmed/mohamed/islam/esraa/aya/asmaa [acray] signes (p) just Pop \* Abob! Var arr1 = ["ahmed", "monamed", "islam", "esraa", "aya", "asmaa"] Var acce = acce : pop() [acce office : (asman) resplais: [co] Console log (arra) output ["almed", "mohamed", "islam", "esma", "aya"] \*Push: array sa Sin pis cinjos - Push Var arrs . [ "ahmed", "monamed", "islam", "sally"] 5 Var all2 = arrs. push ("ibraheem") 51 Console. Log(arrs) -> ["ahmed", mohammed", "islam", "saly", "ibraheem"] 9 ally ) (3 reis del ces; (Shift) \$ # Shift i Var arrs = ["ahmed","islam", "sally"] 2 Var a1/2 = a1/1. shift() 2 Console arlog (arre) \_\_ ['islam", "sally"] 2 1 Console. Log (arrz) - "ahmed" لتكون ...



\* pow \* Math. pow ntml: <svp> </sup>: or il \* Math. pos Var num1 = Math. pow (2,7) Consule 109 (num1) -> 27 = 128 oevill ist: Math Sqrt \* sart \* Math. sart Var - num1 = Math sart (81) Console. log(Num1) -> V8 = 9 ب ولايم العمم الأعلى + Math. Ceil dis res 1 1/2 / Math. Ceil Var nums: Math. Ceil (7,1) (7,9) (7,2) Console log(nums) > 8 ( Land) Exhibit floor \*Math. floor . Joy evel Educe: Math. floor e Var num1 = Math. Floor (7,9) (7,5) (7,1) Console, log (nums) -> 7 floor + ceil grandom & Math. random varnum1 = Math. random() Console . rog(num1) - Ju (Te o) cir air o sple i don - cle 100 (0) c 100 ) var nums = Moth random () \*100 Conside. log(numl) -> 22,981- 23.2899-Ceil (1000 19 ces mall (10) cru 101 + \* and ceil is cars إذا مري أرفع الأ Var num1 = Math. floor (Math. random () x100) Console log(num1) 8 لتكون...

Json. Jon dava Script Object Notation alsaur object 1 mil a in . Is Ilsales all ap Json 11 object a asso object 11 and I so a sulso mule toon Json: backend Ils frontend I au de leilau. of alexand Ison placeholder - Json Justa Estaria Value, ées (" ") au pocisse key 11 5 object 11 -x ("") air Sép aus. [name: "islam"] " ") on aper value 11, key 11 , from \_ & 2 3 2 19 Son JICisi cust -2 script2-json deis (ds) It is wif. 200 -20 Value >"name": "islam" > Comq. -2 "age"; 26, -50 city": "mansoura" } , comercial sci -21 legar les siste save a object, object is cio -2 2 F"name": "islam", JUS Coma "age": 26 , "City": "mansoura" ) 2 لتكون ... ALADIB

6-values : Ison is 5- 15 Com 11 Data types 11 (true, false) number string, boolean, null, [] . [] { "City" : [" islam", "ahmed"] "name": \ name "-" Ison is Lines Early Datatypes 1-3- Values Face undefined function = X'd": functioning ?X X 26/2/20X - ("") in ses (= ! = 25 & time of is ("") = "26/2/2020" String 140 2164. C String I Sed ("") C - ! undefined is !! I'll "undefined" JS) , Js + object , array als. Var Gde = L name: "ahmed", wafp array are objects acis 99e: 20; city: "mansoura }, Console.log (code) لتكون ALADID

out put: { name : "ahmed" , age: 20 , City: "mansoura" } F name: "estar", age: 22, city: "cario"} Framer "Sally", age: 25, City: "Bamas") tength, 3 Console, log (typeof code) -> object object - array 11 Eis array arisis HTML 2 Console Il an arell - I will ifs low\_ document. Var divs - get lement By Id ("divs") diVA. innerHTMI = Code X -> [object Object ][object object][ object 11 ( to Zon Larell data from data 11 co string med pulso de de (131) Ison cobject us see also object - array USI & data JLD 19 is is div It data II of ips on string las en si se acellanes object var x = 350N. Stringify (Code) 10 string Jobject 11 Jos W abject read diVI. innerHTML = X string - code

Lesi les object l Deposus String e data orise l'ob ! S can Declie access State 1. Var y = JSON. Palse () - object ) string 1, U. 3 JSON , Parse Tupi string or wo div1. innerHTMI = y \_ Lobject, object, object -(J. City) and solution Stringe de lei Brilo a object es de lai éré Developa S Zil X = JSON. Stringify (y) : N/5 ais string 4! (4) reform abject us -y= JSON. Parse (x): (y) sais object is (x) copy string ), us (JSON) JI () لتكون ... BIUNIA