

in arguments to the function.

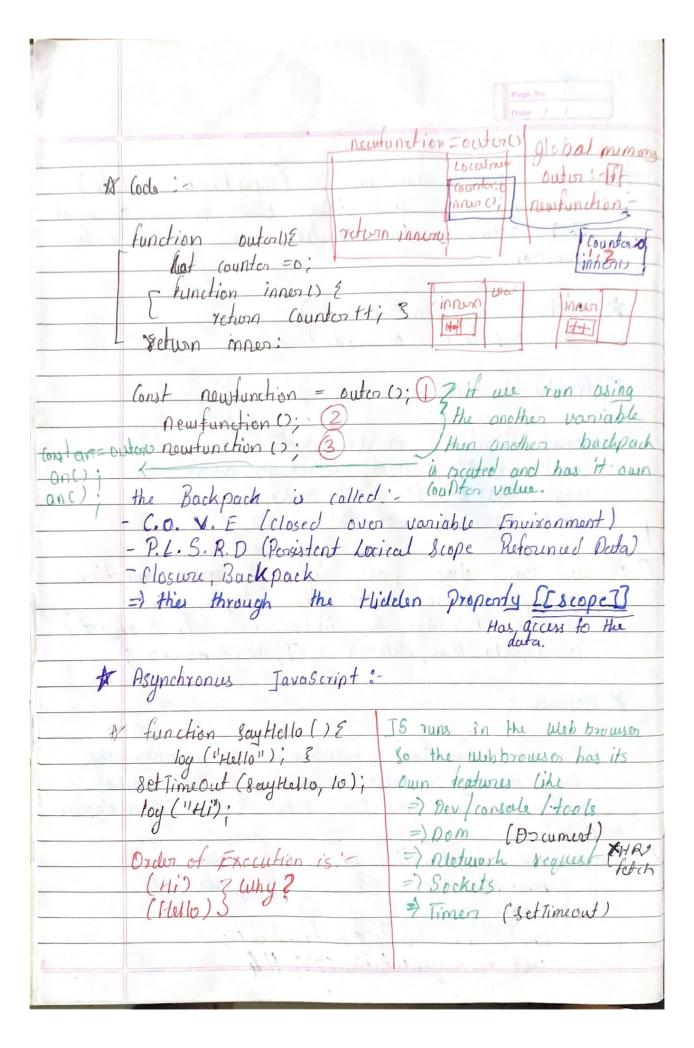
That are assigned to lle have # lode:function mul2 (arouy) forst op = £3: for (ut i=0; itarray lingth, itt) op. push (orray [i] \*2); 7 cturn (onst my array = [1,2,3]; const result = mulz (myarray); Here we are breaking the DRY Principle (i.e Don't repeat yourself); we want to do dividel3, add3, then we need to rewrite the function We can generalize the function => 10de function copy and manipulate (array, inst) & Longt op = C3; for lut i=0; isarray lingth; itt) & op. push (inst larray [i]), 3 return op; Formatio mul 2 (h) ¿ veturn nx 23 Const res = copy Pad manipulate ([1,2,3], mul2);

Higher order trunction - (copy And manipulate)
the function that takes other function as input by yeturn new function is kighen order function the function are parlinent. & Arrow function: tonst function mullnum) = Eretur numx 23 (ant mul2 = (num) => Ereturn num x 2 3 const mul2 = (nom) = nomx2 (onst mu/2 = num => num x2 \* we can also pars in the arrow tunction os a argument to the Higher Order function (Bédause the la is both la & object 1.e Copy And Manipulate ([1,2,3], num => mumx2); \* closures:-=) When a function finishes the execution the Local memory is also relased by the function. Flunction Greatefunction () & function mul2(nom) 2 return mul2;

Yeturn num + 2; 3 return

Const gentunction = (rechetunction ();

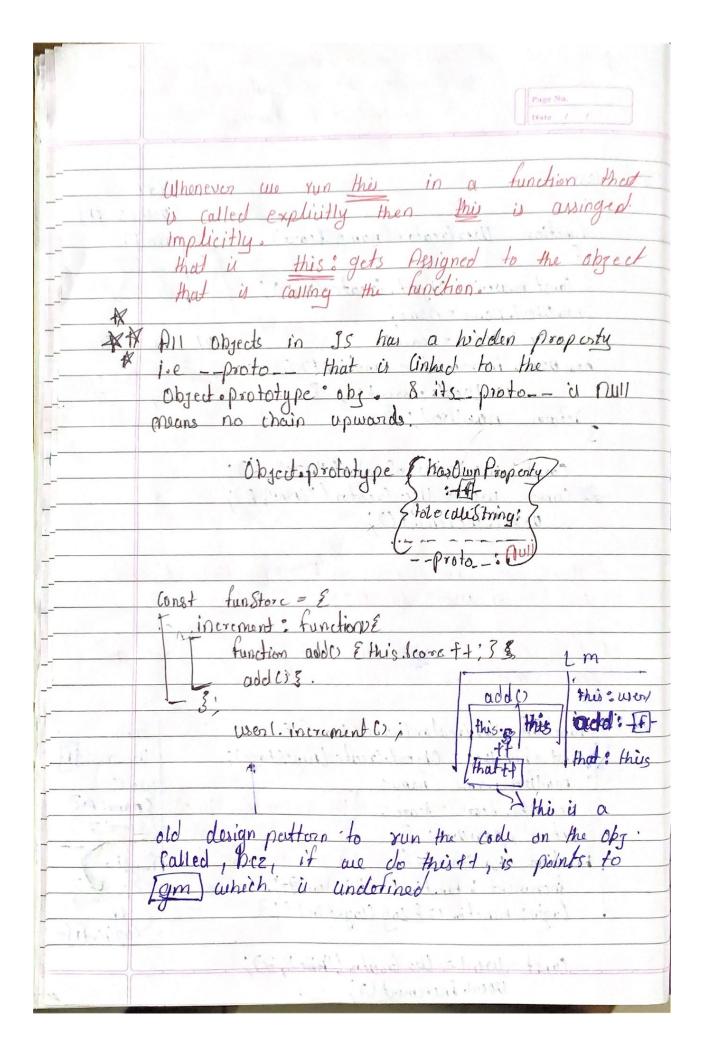
cont res = gentunction (2); 1/4



oms get Timeout (FF), 1000)/ global -mim function Print Hello & Duch browser: PrintHullo= . Fit 10g ("Hello"); 3 Times Set Timeout (print Hello, 1000); lins log (itello"); console logt tela 1000 ms - Print Hyloc & while are are using the With Browser reature encomput Async Js, then they are many factor that Times affect the code execution. 1000 mgs i) Call Stack => the global() where we keep track of of callback queue => the feature like settimenute coveret cine 3] Event Loop => the link from Stack to de queue 1) microtash queue Dan use promise, fetch. tipesh all the code in the then when alohal Stack the Event Loop thechs & execus the callback queue microtask queue has the high priority the callback queue A Promises : futwillula t total 1 Gm (recide obj | web Brown Display: Fft function Display ( Dutal Svatui: tuturun: ? (onsole log (nata); 3 Full il ment: Fulure D = fetch ("dbol") Console-log loy ("Itello"); web Brouses Complete? & a completou tutarilater. -twitter.com Value - lau 11/1

At the backend it does the confullfilled. pushe,) Whenever the Value property is modified then it calls the callback function that we write then (\*) this is stored in onfullfillment property what to call we have to queue, . mino task owere Quere call back queue the execution order is that -> 1st the global stack completes all the global and it checks wheather the microfosh queue took queue is empty then it checke call hack queue to the things that go on to the callbach queue & microtash queue is that whatever does in the procuser & refur some function callback like settime out She things that comnect with the outside into goes (like API)-call goes on microtask queue Hure is a error in the promise object it also has an onvertion property of the are 2 way 1) try, catch there are 2 way 2 and passing coton, as 2nd argument 1) Owlas catch (-171-) 2) Data then (-15)-,-1801

When We call the function then the large) are stord in Local memory of the function call maped to the Panameters of the function.	U.O
function User/readox (name 10070)	increff ("ABL'Z)
Const uses = Uses (reator ("ABC", 7);  (onst uses 2= Uses (reator ("Imm", 8);  West: increment ();  Here we have increament function (tor for every uses, so DIV is upilated;	
than that links to the function.  Function Unitedor (name, score) E	
newlsen. name = name;  newlsen_beare = beare; the proto- wink fr  return newdsen; } is created to point {}  function fun Store = 2 if not found in oby for  increment: function (> Ethis. servit; 3;  Login: function (> E Loy (loyed in ) 5; 3	incomes
Const user = Uso Greator (17the 1,7); User 1. increment ();	ogin: 145-



	Make the function name start letter (apital. (to Stundard form)
X	Solution 2: Using INew / A
	the New Keyword does some predictioned things
	D) make a this knyward
	1) make a this keyword. 2) make an empty object.
	Note: the proto has the link to obj prototype
	1 tunchan the Country Comme to 120
	this name = name;
	this . Score = score;  This - Score = score;  Thurship Alar acotar oxotature in examinet = function (1)
	Tomason Contraction of the state of the stat
	E Mus. Store tt; 3
	Const User = new Use (reator ("ABC", 7);
	for when we store a property on function
	using (.) it is stored in the prototype
	property of the object part of function
	user freedox: ( 3 1+77
	Sincreme?
	Sincreme /
	if () => function call, If . => object property.
	The second secon

	A When we return from fun: Ex ene return the
A	Solution: [class] Syntatic sugar.
	Constructor (name, score) ? fund weco(nis)  this. name = name; this name = n;  this. score = score; & this core = s;
	increment () Éthis score et : 3.   weresector. Prototype  Login () É log (" royedin"; 3 = function () £ 3
	Worl-increment():
	- X - X - A - A - A - A - A - A - A - A