Callback Functions Callback function is function that is performed after another function has completed its execution H is typically supplied as an input to other function. Callbacks are critical to understand, as they are used in array methods (Such as map(), filter (), and so on) Set Timeout, eventlistness (such as click, scroll) Function order Pizza (type, name, callback) & console. log ('Pizza ordered.,'); Console. log ('Pizza is on preparation') Set Timeout (Function () } let mag = Your & of type & & & name & Pizza is ready; callback (msg); 3, 3000);

Date:
Now Invocation of Order Pizza
order lizza ('veg!, 'cheese', Function (message)
consoli. log (message);
· Imp points to Note
> Javascript for can accept other for as arg. > passing for as arguement is powerful programming concept that can be used to notify caller that something
used to notify caller that something happened. It is also known as callback function.
> Nesting too many callback fr is not a great idea and it creates Callback hell.

Java Script Map	////
The Array. Map() allows you to sterate over array using loop.	
This method allows you to iterate and modify its elements using a callback function.	
The callback function will then be executed on each of array's element	•
For. eg let arr=[2,3,4,5,6];	
Now Imagine you have to multiply each element of array by 3	
Now Imagine you have to multiply each element of array by 3 you can use for loop also like this let arr = 12,3,4,5,6]; for (let i = 0; i < arr. length; i++) {	
Now Imagine you have to multiply each element of array by 3 you can use for loop also like this let arr = 12,3,4,5,6]; for (let i = 0; i < arr. length; i++) { any 1i7 = arr1i7 * 3; }	
Now Imagine you have to multiply each element of array by 3 you can use for loop also like this let arr = [2,3,4,5,6]; for (let i = 0; i < arr. length; i++) {	

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By using map it will look like this!
let ave = E,3,4,5,6];
let modified Arr = aver. map (function(el) { retween el #3;
3); console. log (modified Arr); 11 [6,9,12,15,18]
How to Use Map over ARRAY OF OBJECT
let users = [§ first Name: 'Deepa', last Name: 'Chaurasia's, § first Name: 'Devesh', last Name: 'Chaurasia's, § first Name: 'Tyoti's last Name: 'Chaurasia's,
You can iterate as follow
let user Full names = users. map (function (el) { netwin & Elim first Name 3 & gel. last Name 6: 2)
Consol. log (user Fullnames); [Deepa chaurasia, Devesh chaurasia, Tyoti Chaura
L Deepa chaurasia, Devesh chautasia, Jon Chau

The Complete map () method syntax
The syntax of mapl) as follows
arr. map (function (element, index, array & }, -this);
The callback function() is called on each array element, and the map() method always passes the current element, the index of current element and whole array object to it.
The this argument will be used inside callback function.
By default it's value is undefined Eg- let aux = [2,3,5,7] ary. map (function (element, index, array) console. log (this) 1/80 3,80);
Here you can see this value is 80 which is default value.

	Date: /
	Reduce Method In JavaScript
	Use it When: you have array of numbers you want to add them are
	For eg - const nos = [29, 40,30]; const sum = nos. reduce (Ctotal amount) total ramount); sum // 99
	Filter () and Find () in IS
-	Fiter () provides new array depending on certain criteria.
	Unlike map(), it can alter size of new Array, whereas find() retwen just a single instance.
1	Foreg = let Users = [\$ first Name: (Ram' age: 14 g) \$ first Name: Shyam' age: 173, \$ first Name: 6 Jacob' age: 25 g 7:

You could choose to stort these data by age groups, such as young (1-15) adult (15-50)
Like this:
const young leople = users. Filter ((person)=) netwin person. age <= 15;
const adult = users. Filter ((person) => { Setwin person. age > = 50);
console log (young People); console log (adult); And The Example of Find goes like this
const Ram = users. find ((person) => person. first Name = = = 'Ram');
Console log (Ram);

Datei
Unique Value - Set ()in Js
let animals = [
S command
name: (Lion)
category: "wild"
S name: (dog)
Category! (pet)
4,
S name: (acat)
Category: (pet)
73.
If we loop through map, we will get repeated value
But we don't want repeated value here
So we will use Unique value-Set()
Foreg - let category = [new Set (a)
animal category))7:
animal category)]; console log (category): //[wild, pet]

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