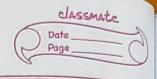


i	3
	Chapter 5 - Arrays
	Arraya Are Variable while a 1-11
	Arrays are Variables which can hold more than one
	Const fruits = ["banana", "apple", "grapes"] Const a = [7, "Harry", false] Lan be different type
	Const a = [7 "Harry" false]
	Lan be different type
	Myrau methods
	Accessing Values
	Accessing Values Let numbers = [1, 2, 7, 9]
	200 mlable C. 7 . 1 . 1 . 1
	numbers [0] -> 1
	Human LI
	Finding the length let numbers = [1, 7, 9, 21] numbers [o] \rightarrow 1 numbers length \rightarrow 4
	let numbers = [1 7 9 021]
	L K Y Y X 3
	numbers [o] -> 1
	numbers length -> 4
	Changing the values 1ct numbers = [7, 2, 40, 9]
	ct numbers = 17, 2, 40, 9]
	1m., 1.1. (1.1.)
	numbers [2] = 8 L) "numbers" now becomes [7, 2, 8, 9]
	Arrays are mutable
	Arrays can be changed
1	



In Java Script, arrays are Objects. The type of operator on arrays returns object

Const n = [1, 7, 9]

type of n -> returns "object"

Arrays can hold many values under a single name

Array methods

There are some important array methods in
Java Script Some of them are as follows:

1. to String () → Converts can varray to a string of comma separated values

let $n = \begin{bmatrix} 1 & 7 & 9 \end{bmatrix}$ $n \cdot to String() \xrightarrow{} 1, 7, 9$

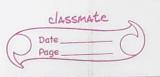
2. join () -> joins all the array elements using a separator

let n = [7, 9, 13] $n \cdot join("-") \rightarrow 7-9-13$

3. pop () -> removes last element from the array

let n = [1, 2, 4]

n.pop() -> updates the original array
returns the popped value



4. push () - Adds a new element out the end let a = [7, 1, 2, 8] $a \cdot push (9) \rightarrow moderis the original array

> returns the new array length

5 - Shift () <math>\rightarrow$ Removes first element and returns

it 67 unshift() -> Adds element to the beginning.
Returns new array length 7. delete -> Array elements can be deleted using the delete operator let d = [7, 8, 9, 10]delete $d[1] \rightarrow delete is an operator$ 8. (oncat() -> Used to join arrays to the given array let ai = [1,2,3] Let $a_2 = [9,8,7]$ $a_1 \cdot (a_2, a_3) \rightarrow Returns [1,2,3,4,5,6,9,8,7]$ Returns a new array Does not change existing arrays



→ sort() method is used to sort an array alphabetically. 9> Bort()

> let a = 7, 9, 8] a. sort() in a changes to [7, 8,9] [modifies the original array]

Sort () takes an optional compare function. If this function is provided as the first argument, the Sort () function will consider these values (the values returned from the compare function) as the basis of sorting

10, Splice () -> Splice can be used to add new items to an array

Const numbers = 1, 2, 3, 4, 5 Returns deleted (2, 1, 23, 24)

Returns deleted (2, 1, 23, 24)

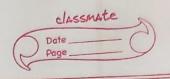
rems, medifies the position to add to remove added

Array

11> Slice () -> Slices out a piece from an array.

It creates a new array

(mst num = [1, 2, 3, 4] num slive (2) -> [3, 4] num slice (1,3)



12- reverse () - Reverses the elements in the source array. Looping through Arrays
Arrays can be looped through using the classical
JavaScript for loop or through some other methods
discussed below for Each loop -> calls a function, once for each array element Const a = [1,2,3]
a for Each ((Value, index, array) => 2
// function logic
3); 27 map () -> Creates a new array by performing some operation on each array element. Const a = [1,2,3]

a·map (Cvalue, index, array) => 3

return value * Value;

3) 3. filter () -> Filters ran array with values that passes a test. Creates a new array Const a = [1, 2, 3, 4, 5] a. filter (greater-than-5)

	Date Page
4,	reduce method -> Reduces an array to a single value
	Const $n = [1, 8, 7, 1]$ Let sum = numbers reduce [add] 1+8+7+11
Abasis su	1+8+7+11 +A function
5,7	Array from - Used to create an array from rany other object
	Array from ("Harry")
6,	for of > For - of loop can be used to get the values from an array
	for in - for-in loop can be used to get the keys from an array.
	Demont of Volume lights Created
	Yeliso John Evalue
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hait	College of the value
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