

→ ~~2A~~ / ~~used in real like error~~  
worn (" ")

↓ Prompt . (for taking input)

let first = ~~name~~ prompt("enter name");  
console.log(first);

↓ String method

→ action that can be performed on objects

StringName.method()

↓ Trim method

str.trim()

(// whitespaces remove from both ends  
" hello " (// If, strip whitespace  
Hello)

(// keep the space at not remove)

↓ String are immutable in string.

→ To convert uppercase & lowercase.  
original string if no change as it is immutable new string is created

str.toUpperCase()

str.toLowerCase()

↓ Method with argument

→ StringName.method(arg)

• Index of // Not found -1

let str = "lovecoding";

str.indexOf("love") // 1

• Method chain

let newmsg = msg.trim().toUpperCase()

• Slice

str.slice(start, end)

str "hello"

s.slice(2) ⇒ llo

str.slice(-ve value) =

str.slice(str.length - 2)

• Replace

str.replace("love", "do")

replace love with do

• Repeat

let str = "mango";

str.repeat(3)

3 mango



# APNACOLLEGE

name = slice(4).replace('A', 'Z')

// COLLEGE.

## Array ~~error collect & return~~

let str = "ad" - ["ad", "ad", "ad"]

- type of array  
// object.

### Array are mutable

let fruits = ["xy", "yz", "zx"]

length = 3

place

fruits[10] = ["vow"]

new length will become (11)

Examining will be empty.

• when we try to access fruits[5] = undefined

### Methods

• Push: add back, str.push(s)

• Pop: delete from end & returns it [str.pop]

• Unshift: add to start

• Shift: delete from start & returns it [str.shift]

• index of: Not found = -1

• includes & search for a value.

str.indexOf("yellow")

str.includes("red")

(1) true or false

found

not found

• Concat: <sup>m</sup>merge 2 arrays

• Reverse:

primary + concat(secondary)

primary + reverse()

• slice, colors.slice(2)

• splice removes / replaces / add elements in place.

splice (start, delete count, item 0, ..., item N)

ye direct array ko change kr dete ho copy

→ colors.splice(4)

['pink', 'white']

→ colors

['red', 'yellow', 'blue', 'orange']

→ colors.splice(0, 1)

['red']

→ off index kisi uske bad

kisi ko delete krne (manuscript)

→ colors

['yellow', 'blue', 'orange']

index at which they add  
→ agr kuch remove krna to use 0.

→ colors.splice(0, 1, "black", "grey")

['yellow']

→ colors

['black', 'grey', 'blue', 'orange']



- Sort (No. ke case it unka string it conversion karta 2 us basis it sorting)
- method chain

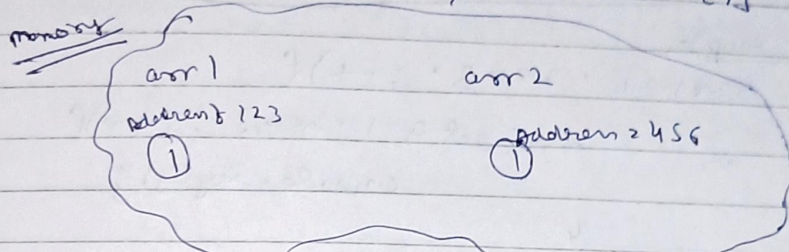
lang.reverse(), indexof("ss")

usme lang reverse aur ss find kr index return

## • array reference

- $[1] == [1]$  or  $[1] === [1]$  // JS me give false
- Address of value is known by reference.

Ex: let arr1 = [1], let arr2 = [1]



→ JTA gti arr1 ki uski value duplicate kr lo log 123  
Δ when arr2 ki 3rd ki value 456.

→ let arr = ['a', 'b'];

let arrcopy = arr;

arrcopy // ['a', 'b']

arrcopy.push('c');

arr // ['a', 'b', 'c']

(change made in arr copy will also be seen in arr.)

arr = arrcopy; // done

→ Bhai dono ki change krna karta individual krna chahie then new let arr = ['a', 'b'];  
let arrcopy = ['a', 'b'];

## \* Constant Arrays

const arr = [1, 2, 3];

arr without const

arr.push(4); // it will not give error & give subtle output

arr.pop();

arr = [1, 2, 3]

↓  
arr // [1, 2, 3]

↓  
arr // [1, 2, 3]

↓  
arr // [1, 2, 3]



ordered 1 multi dimensional array.

• let  $nums = [ [2, 3], [4, 8] ]$

• nums[0][0] = 2

(0,0) (0,1)

2	4
3	6
4	8

(1,0) (1,1)

