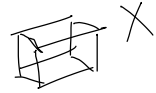


JS



# objects ? what is object?

- ✓ → DataStructure ✓
- ✓ → Collection of properties

Bohot same  
Key-value  
pair

✓ what is property?  
pair of

Key & value  
pair

Key-value  
Key-value

⇒ DS, unlike array ∵ it is  
unordered in nature.

ordered  
DS

Array →

[10 | 20 | 30 | 40]

Jis order mai, usi order mai  
output.

unordered  
DS

Object →

Not necessary, jis order  
mai input diye, usi order  
mai vo store.

① name : Sam  
② age : 27  
③ isMale : true

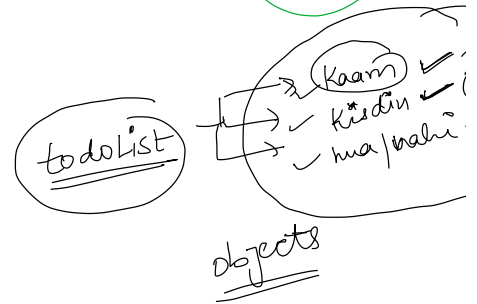
X order

Array → Let arr = [---];

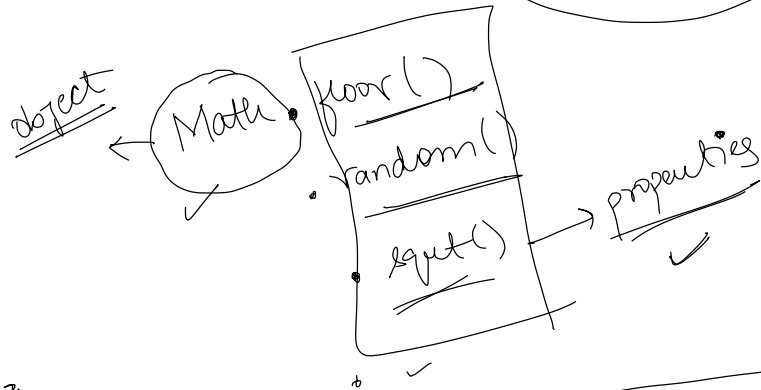
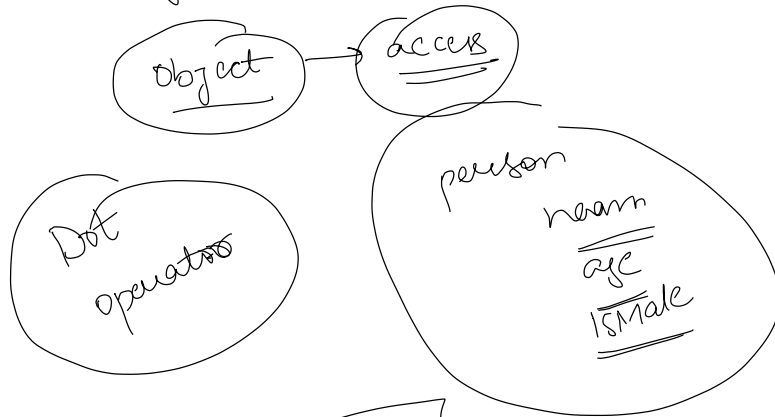
object → Let obj = {  
 (K) (V)  
 (K) (V)  
 (K) (V)  
 (K) (V)  
}

eg: Let obj = {  
 ✓ property 1 → ✓ name: "Samantha" ✓  
 ✓ property 2 → ✓ age: 27 ✓  
 ✓ isMale: true ✓  
 }

value  
 string  
 Num  
 Boolean



why objects?



Math

EVERYTHING INSIDE JS IS AN OBJECT

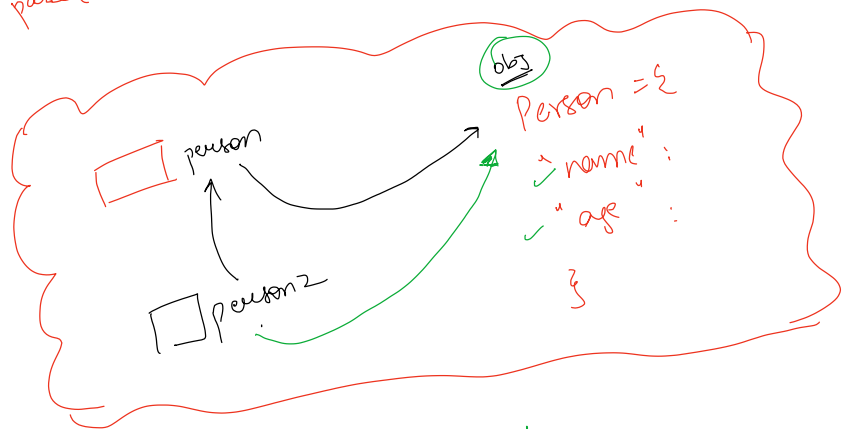
Let arr = [10, 20, 30, 40];  
 arr[2] → 30

Let obj = {  
 name: "Labani",  
 age: 24,  
 isMale: true

Mem  
 Keys

`obj[name];`  $\rightarrow$  `f` ✓ ✓ ✓ ✓ ✓  
yes we can

Q11  
 Q12  
 Arrays kya reference? True ✓  
 Object reference? True ✓ ✓ ✓ ✓ ✓  
passed



By default keys are inside the memory as string.

Accessing value from object :  
`person['name']`  $\Rightarrow$  correct  
`person[name]`  $\Rightarrow$  incorrect

`person2` ✓ yes  
`person2.name = "Samant";`

When a function is present inside any object then we call that function as methods.

Eg : `Math.random()`  $\Rightarrow$  Here random is a method not a function inside Math object

Methods vs function

Object  
 $\downarrow$   
 (function)  
 $\downarrow$   
 methods

let person = {  
   name : 'Sam',  
   age : 21,  
   bula : function () { }  
 }

Hoam  
 True

methods

`function sam() { --- }`

`int calls () {` | `function () {`  
 ✓ method

CPP

}

always returns a val

return

When we do not return anything from a then JS automatically returns

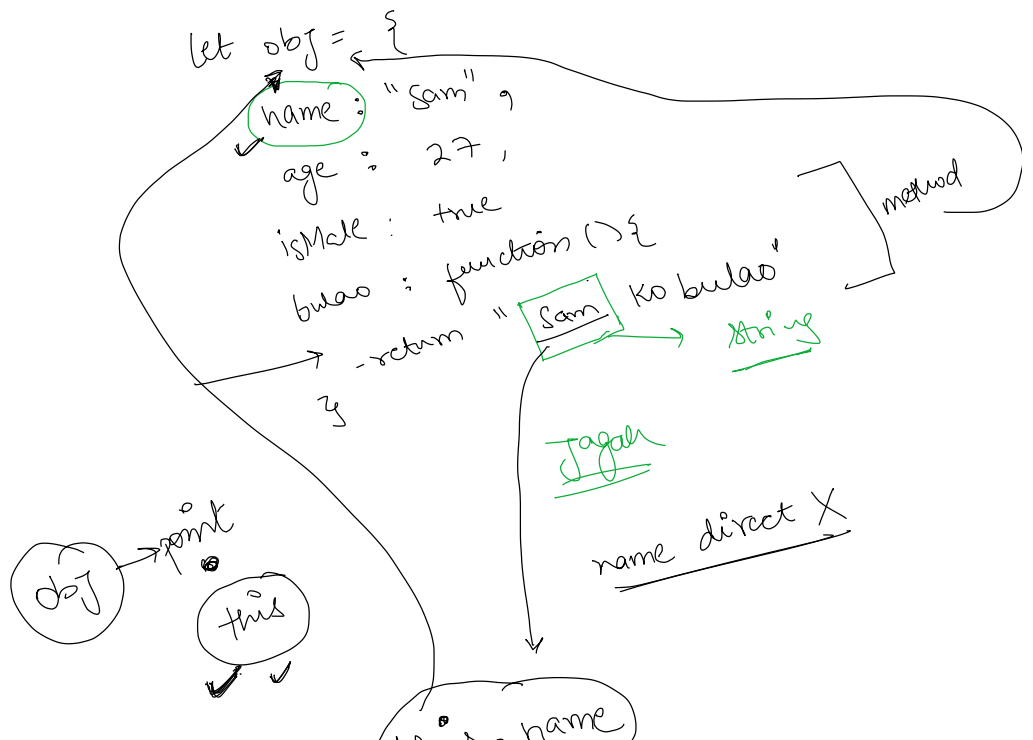
1. this keyword ki help se m object ke ander ki properties ko access kar sakta hu.
2. this is a special keyword jo ki object ko point karta hai jis object ke method ke ander ye present hota hai.

this  
1  
method

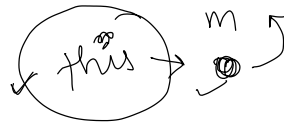
Object (access)

2  
Object  
same properties ko access  
func / method

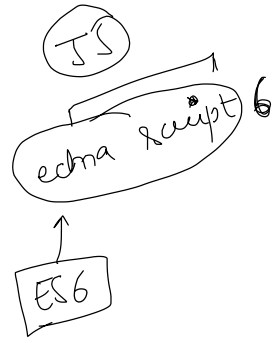
this  
Special Keyword  
Object ko point



return (this ...)



# Loops

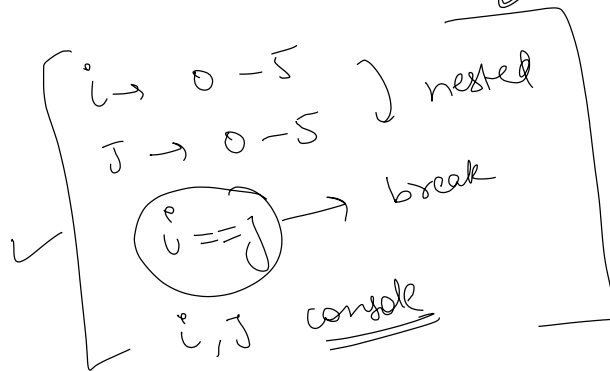
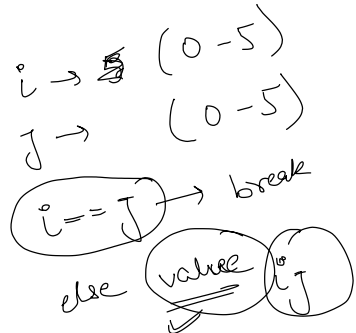


- ✓ ① for
- ✓ ② while
- ✓ ③ do-while
- ④ for-in
- ⑤ for-of

break ;  
continue ;

- ✓ break → innermost break
- ✓ continue → innermost iteration

9 Nested



output

100 90 80 70 - -

everything  
JS

for-in

side loop's

for-of

Iterable item loop

for-in => object  
for-of => iterable item  
Eg : array, list, map

