

17

FEBRUARY

FRIDAY

WEEK - 08

DAY 548/519

DATE: 17.02.2023

Objects

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

17/02/23

① Undefined

↳ let x = 10;  
console.log(x); ⇒ 10;

let y; → No value has been  
assigned to y

console.log(y) ⇒ Undefined.

if the user is not assigning any value  
js by default assigns Undefined.

② Null

↳ No value; It represents absence of something.  
↳ js won't assign it.

↳ Assigned by user based on some prob.  
Statement.

Objects → Data Structure.

Syntax: - let details = {  
name: "Aman",  
age: 45,  
location: "Manali",  
hobbies: "Graphic Novels",

Notes:



- \* length property will not work with object.
- \* Object has no concept of index.

How to Access a particular <sup>key's</sup> ~~value~~ <sup>value</sup>

- Dot Notation
- Bracket Notation (Give programme)

If want to add more than one value to an object use array ex. -  
hobbies: ["Singing", "Biking", "Reading"]

// 1 Bracket Notation

// array  $\Rightarrow$  details[0]; <sup>object name</sup>

console.log(details["name"]); <sup>key</sup>

In Arrays there is index but in objects there is keys that should be in string format

19 Sunday

To do it in one console

console.log(details["name"] details["age"])



## Dot Notation.

⑦ How to update a particular key's value.

```
let arr = [1, 2, 3, 4, 5]
```

```
arr[2] = 8;
```

```
console.log(arr) → [1, 2, 8, 4, 5]
```

```
let detail = {
```

```
  name: 'Aman',
```

```
  isMarried: true,
```

```
  age: 54.
```

```
}
```

⑧ Bracket Notation.

```
detail["isMarried"] = false;
```

```
console.log(detail); false.
```

⑤ Add a key value pair to object

Notes:



detail["size"] = 45; //update the values of 'size'

// if I am assigning a value to a key which is already in the object then it will get updated and if the key is not present, it will get added.

delete details ["location"]

4



22

FEBRUARY

WEDNESDAY

WEEK - 09

DAY - 05/1/22

DATE 23.02.2023

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

①

```

09:00 console.log(details["hobbies"].push("cooking"));
10:00           .length;

```

O/p → added  
cooking  
to array

11:00  
12:00  
13:00 How do I Iterate over hobbies.

14:00 hobbies: ["Biking", "Graphic", "Dancing",  
15:00 "Singing", "Movies"]

16:00 Let arr = details["hobbies"];  
17:00 console.log(arr);

18:00 for (let i = 0; i <= arr.length - 1; i++)  
19:00 { console.log(arr[i]);  
}

⑦

Nested Objects.

Notes:



## ① Syntax of nested objects

```
let details = { name: "Aman",
               age: 45,
               address: {
                 City: "New Delhi",
                 Street: "456",
                 house: "100",
                 pin: "115566"
               }
             };
```

## ② { LOOP ON object }

↳ for in loop

```
for (let key in details) {
  console.log(details[key]);
}
```

Notes:

Instead of

if (console.log(i)) {

It will print all the keys