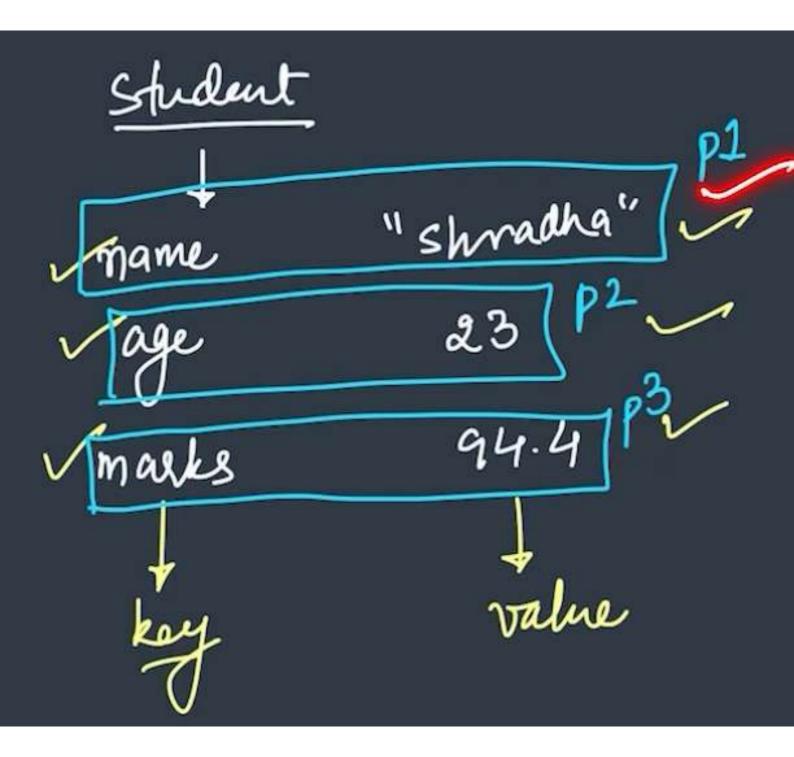
JS Objects Literals

Used to store keyed collections & complex entities.

property => (key, value) pair

Objects are a collection of properties



IS Objects Literals

```
let del 1 = {
    latitude: "28.7041° N",
    longitude: "77.1025° E"
};
```

```
const student = {
   name: "shradha",
   age: 23,
   marks: 94.4,
   city: "Delhi"
};
```

Thread I Twitter Post

Create an object literal for the properties of thread/ twitter post which includes -

- username
- content
- likes
- reposts
- tags



Get Values

```
let student = {
   name: "shradha",
   marks: 94.4
};
student["name"]
student.name
```

Add/ Update Value

- Change the city to "Mumbai"
- Add a new property, gender: "Female"
- Change the marks to "A"

```
const student = {
    name: "shradha",
    age: 23,
    marks: 94.4,
    city: "Delhi"
};
```

Object of Objects

Storing information of multiple students

```
const classInfo = {
   aman : {
       grade: "A+",
        city: "Delhi"
    shradha : {
        grade: "A",
        city: "Pune"
    karan : {
        grade: "0",
        city: "Mumbai"
```

Array of Objects

Storing information of multiple students

```
const classInfo = [
        name: "aman",
        grade: "A+",
        city: "Delhi"
        name: "shradha",
        grade: "A+",
        city: "Pune"
        name: "karan",
        grade: "0",
        city: "Mumbai"
```

Math Object

Properties

Math.PI

Math.E

Methods

Math.abs(n)

Math.pow(a, b)

Math.floor(n)

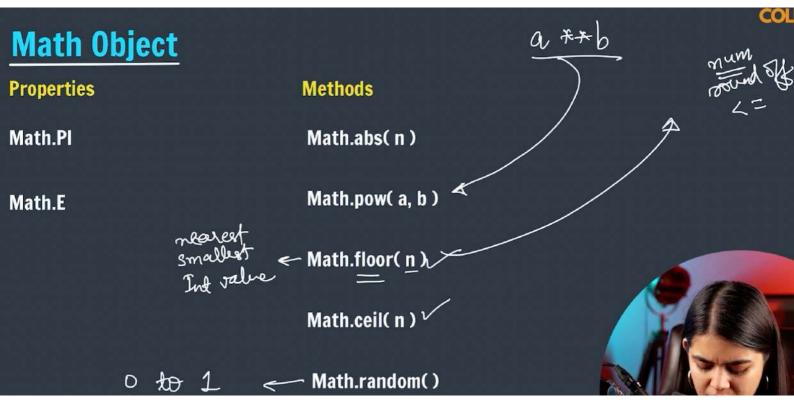
Math.ceil(n)

Math.random()

```
> Math.floor(5)
< 5
> Math.floor(5.5)
< 5 5 €
> Math.floor(5.9999999999)
<- 5
> Math.floor(-5)

√ −5

> Math.floor(-5.5)
<- −6
```



Random Integers

5

From 1 to 10

```
> Math.floor( Math.rangdom() * 10 );
< 0
>
```

Random Integers

From 1 to 10

```
let random = Math.floor(Math.random() * 10) + 1;
undefined
random
4
```

Qs

Generate a random number between 1 and 100.

Math. floor (Math. random () * 100) +1

Generate a random number between 1 and 5.

Guessing Game

User enters a max number & then tries to guess a random generated number between 1 to max.

user = prompt() // [D]

```
JS app.js > ...
      const max = prompt("enter the max number");
      const random = Math.floor(Math.random() * max) + 1;
      let guess = prompt("guess the number");
  6
      while(true) {
           if(guess == "quit") {
               console.log("user quit");
               break;
 10
 11
 12
           if(guess == random) {
 13
               console.log("you are right! congrats!!");
 14
               break;
 15
           } else {
 16
               guess = prompt("your guess was wrong. please try again");
 17
 18
 19
```