

//1.object: In javascript object is an real world entity which have properties and behaviours

//2.create object:

```
const person = {  
  firstName: "Ramesh",  
  lastName: "Yadav",  
  age: "35",  
};  
console.log(person);  
//output:firstname:'Ramesh',lastname:'Yadav',age:'35'
```

//3.accessing objects in two ways

//1.using '.'

//2.using '[]'

```
const person1 = {  
  firstName: "Ramesh",  
  lastName: "Yadav",  
  age: "35",  
};  
console.log(person1.firstName); //1st way  
console.log(person1["age"]); //2nd way  
//output:Ramesh,35
```

//4.this:this is a keyword in javascript whci reffers to the owner of the function

```
const person2 = {  
  firstName: "Ramesh",  
  lastName: "Yadav",  
  carname: "Mahindra Thar 4X4",  
  age: "35",  
  color: "Yellow",  
  score: {  
    English: 95,  
    chemistry: 70,  
    hindi: 99,  
  },  
},
```

```
prints() {  
  console.log(  
    `My name is ${this.firstName}, I have ${car.color} car  
whose name is ${this.carname}`  
  );  
},  
};
```

```
const car = {  
  name: "Mahendra Thar 4X4",  
  color: "black",  
};  
console.log(person2);  
person2.prints();
```

//5.remove property :we use delete to remove the property

```
delete person2.color;  
console.log(person2);
```

//6.modifying the object values:

```
const person3 = {  
  firstName: "Ramesh",  
  lastName: "Yadav",  
  age: "35",  
  color: "black",  
};  
console.log((person3.firstName = "Rohit"), (lastName =  
"Sharma"));  
console.log((person3.lastName = "Kumar"));
```

//7.constructor function:

//In javascript constructor function it is used to create objects and function person() is an object function.
//we create an object we need constructor function and new keyword.

//ex:

```
function name1() {
  this.name = "Parth";
}
const person4 = new name1();

//8.getter and setter
//getter is used to read the properties and setter is used to
write the properties

const person5 = {
  firstName: "Sanjay",
  lastName: "Patel",
  age: "52",
  get fullName() {
    return `${this.firstName} ${this.lastName}`;
  },
  set fullName(name) {
    const parts = name.split(" ");
    this.firstName = parts[0];
    this.lastName = parts[1];
  },
};
console.log(person5.firstName);
person5.fullName = "Aniket";
console.log(person5.firstName);
console.log(person5.lastName);

//9.check if a property exists in an object
console.log("age" in person5);
//output:true

//10.creating date object : there are 4 ways to create a date
object
//1.new Date()
//2.new Date(milliseconds)
//3.new Date(Date string)
//4.new Date(year,month,day,hours,minutes,seconds,milliseconds)
```

```
let date = new Date();
console.log(date);

let date1 = new Date();
console.log(date1.getMilliseconds);

let date2 = new Date("2023-06-22");
console.log(date2);

let date3 = new Date(2023, 13, 9, 5, 9, 2, 3);
console.log(date3);

//11.adding 5 days

let date6 = new Date("mar 12,2023 11:22:33");
date6.setDate(date6.getDate() + 5);
console.log(date6);

//12.compare two dates
let date7 = new Date("may 01 2017 10:33:44");
let date8 = new Date("dec 03 2023 10:33:44");
if (date7 > date8) {
    console.log("this day is earlier");
} else {
    console.log("this day is past");
}
```