Objects in js:-

In JavaScript, an object is a data structure that represents a collection of properties, where each property is a key-value pair.

Objects are one of the fundamental building blocks in JavaScript and are used to represent complex data structures, like user profiles, configurations, or even more complex custom data structures.

const person = { firstName: 'John', lastName: 'Doe', age: 30, };

**Accessing Object Properties**

There are two primary ways to access properties in an object: dot notation and bracket notation.

* **Dot Notation**: This is the most common way to access properties when you know the property name.
* **Bracket Notation**: This is useful when you have a dynamic property name or when property names have spaces or special characters.

// Dot notation

console.log(person.firstName); // "John"

console.log(myCar.make); // "Toyota"

// Bracket notation console.log(person['lastName']); // "Doe"

// Bracket notation with dynamic key const key = 'age';

console.log(person[key]); // 30

**Looping Through Object Properties**

To iterate over the properties of an object, you can use **for...in** or methods like **Object.keys**, **Object.values**, and **Object.entries**.

// Using for...in

for (const key in person) {

console.log(key, person[key]); // Outputs: "firstName John", "lastName Doe", "age 30"

}

// Using Object.keys to get property names

const keys = Object.keys(person); // ["firstName", "lastName", "age"] //

Using Object.values to get property values

const values = Object.values(person);// ["John", "Doe", 30]

// Using Object.entries to get key-value pairs

const entries = Object.entries(person); // [["firstName", "John"], ["lastName", "Doe"],