Hey Everyones 👋

In this Post, you will learn about JavaScript objects with the help of examples.

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JavaScript Objects

- JavaScript object is a non-primitive data-type that allows you to store multiple collections of data.

- Here is an example of a JavaScript object.

```
// object
const student = {
    firstName: 'Alshifa',
    class: 11
};
```

- Here, student is an object that stores values such as strings and numbers.

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Object Declaration

- The syntax to declare an object is:

```
const object_name = {
    key1: value1,
    key2: value2
}
```

- Each member of an object is a key: value pair separated by commas and enclosed in curly braces {}.

```
// object creation
const person = {
    name: 'Imtiyaz',
    age: 20
};
//You can also define an object in a single line.
const person = { name: 'Imtiyaz', age: 20 };
```

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Object Properties

- In JavaScript, "key: value" pairs are called properties.

```
let person = {
    name: 'John',
    age: 20
};
```

- Here, name: 'John' and age: 20 are properties.

```
let person = {
Keys --- name: 'John', --- Values
       age: 20
};
```

Accessing Properties

- You can access the value of a property by using its key.

1. Using dot Notation

- Syntax : objectName.key

```javascript
const person = {
    name: 'Imtiyaz',
    age: 20,
};

// accessing property
console.log(person.name); // Imtiyaz
```

2. Using bracket Notation

- Syntax : objectName["propertyName"]

```javascript
const person = {
    name: 'Imtiyaz',
    age: 20,
};

// accessing property
console.log(person["name"]); // Imtiyaz
```

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Nested Objects

- An object can also contain another object.

```javascript
// nested object
const student = {
    name: 'John',
    age: 20,
    marks: {
        science: 70,
        math: 75
    }
}

// accessing property of student object
console.log(student.marks); // {science: 70, math: 75}

// accessing property of marks object
console.log(student.marks.science); // 70
```

- In the above example, an object student contains an object value in the marks property.

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Object Methods

- an object can also contain a function.

```javascript
const person = {
    name: 'Sam',
    age: 30,
    // using function as a value
    greet: function() {
            console.log('hello')
        }
}

person.greet(); // hello
```

- Here, a function is used as a value for the greet key.

- hat's why we need to use person.greet() instead of person.greet to call the function inside the object.

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Best Of Luck :)

THANKS FOR YOUR ATTENTION

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