

Javascript Object & Class



Javascript Object

An object is a collection of key-value pairs, where values can be strings, numbers, arrays, functions, or even other objects

Example

```
const person = {  
  name: "John",  
  age: 30,  
  greet: function () {  
    console.log("Hello, my name is " + this.name);  
  }  
};  
  
person.greet(); // Hello, my name is John
```

Javascript Object Functions

Object.keys(obj): Returns an array of the object's property names

```
Object.keys(person);

// Output: ["name", "age", "greet"]
```

Object.values(obj): Returns an array of the object's values.

```
Object.values(person);

// Output: ["John", 30, f]
```

Object.entries(obj): Returns an array of key-value pairs.

```
Object.entries(person);

// [ [ "name", "John" ], [ "age", 30 ], [ "greet", f ] ]
```

Javascript Object Function

Object.assign(): Copies properties from one or more source objects to a target object.

```
const target = { a: 1 };
const source = { b: 2 };
Object.assign(target, source);

console.log(target); // { a: 1, b: 2 }
```

for-in loop: It loops through the properties of an Object

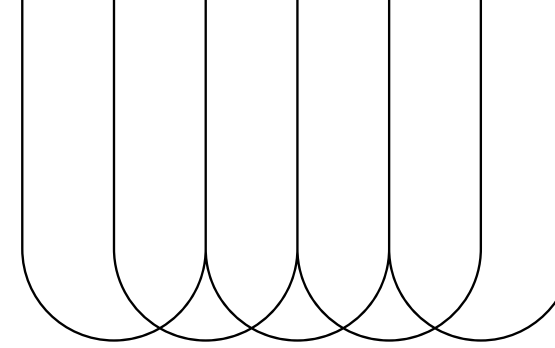
```
const target = { a: 1 };
const source = { b: 2 };
Object.assign(target, source);

console.log(target); // { a: 1, b: 2 }
```

Javascript Class

Class is a blueprint to create multiple similar objects.

```
class Person {  
  constructor(name, age) {  
    this.name = name;  
    this.age = age;  
  }  
  
  greet() {  
    console.log(`Hi, I'm ${this.name}`);  
  }  
}  
  
const p1 = new Person("Alice", 25);  
p1.greet(); // Hi, I'm Alice
```



Javascript Class

Inheritance

```
class Animal {
  constructor(name) {
    this.name = name;
  }
  speak() {
    console.log(`${this.name} makes a sound.`);
  }
}
class Dog extends Animal {
  speak() {
    console.log(`${this.name} barks.`);
  }
}
const d = new Dog("Tommy");
d.speak(); // Tommy barks.
```

Javascript Class

Private Fields in Classes

Use `_` for conventionally private fields, or `#` for truly private fields.

```
class Product {
  #price;

  constructor(name, price) {
    this.name = name;
    this.#price = price;
  }

  getPrice() {
    return this.#price;
  }
}
```


THANK YOU

PHONE NUMBER

(+91) 778 899 2897

WEBSITE

www.indixpert.com

