JavaScript's internal representation of Objects:

- 1 JavaScript is designed on a simple object-based paradigm.

  An object is a collection of properties, and a property is an association between a name (or key) and a value.
- 2 A property's value can be a function, in which case the property is known as a method.
- 3 A JavaScript object has properties associated with it. A property of an object can be explained as a variable that is attached to the object.
- 3.1 Object properties are basically the same as ordinary JavaScript variables, except for the attachment to objects.
- 3.2 The properties of an object define the characteristics of the object. We can access the properties of an object with a simple dot-notation:

## objectName.propertyName

Like all JavaScript variables, both the object name (which could be a normal variable) and property name are case sensitive. You can define a property by assigning it a value. For example, let's create an object named myCar and give it properties named make, model, and year as follows:

```
var myCar = new Object();
myCar.make = 'Ford';
myCar.model = 'Mustang';
myCar.year = 1969;
```

The above example could also be written using an object initializer, which is a comma-delimited list of zero or more pairs of property names and associated values of an object, enclosed in curly braces ({}):

```
var myCar = {
make: 'Ford',
model: 'Mustang',
year: 1969
};
```

In real life, a car is an object.

has **properties** like weight and color, and **methods** like start and stop:

All cars have the same **properties**, but the property **values** differ from car to car.

All cars have the same **methods**, but the methods are performed **at different times**.

## JavaScript's internal representation of Objects:

string.

values.

```
For example:
const calculator = {
    add: function (a, b)
  return a + b;
    },
    subtract: function (a, b) {
       return a - b;
};
console.log(calculator.add(5, 3));
 // Output: 8
Using this Keyword:
Inside an object method, the this keyword refers to the object itself.
For Example:
const person = {
    firstName: 'John',
    lastName: 'Doe',
    fullName: function () {
        return this.firstName + ' ' + this.lastName;
};
console.log(person.fullName()); // Output: John Doe
* The JavaScript standard allows developers to define objects in a very
flexible way, and it is hard to come up with an efficient representation
that works for everything.
* An object is essentially a collection of properties: basically key-
value pairs.
* We can access properties using two different kinds of expressions:
                                   obj.prop
                                   obj["prop"]
* According to the spec, property names are always strings.
* If we use a name that is not a string, it is implicitly converted to a
```

"This may be a little surprising: if we use a number as a

So a JavaScript object is basically a map from strings to

property name, it gets converted to a string as well".