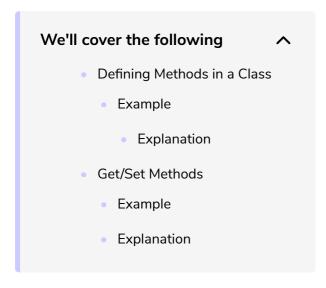
Class Methods

This lesson teaches us how to define methods inside a class and explains the use of get/set methods in classes.



Defining Methods in a Class

In the previous lesson, the employee class constructor encapsulated all properties and methods. However, methods can also be defined outside the constructor in a class.

Whenever a method is declared inside a class, it gets defined on the **prototype** of that class. Hence, whenever an object instance accesses a method, it gets taken from the respective class's *prototype*.

Let's take a look at how that is done.

Example

The following example demonstrates how to define methods outside of the constructor in a class:

```
//creating a class named employee
class employee{
    //creating the constructor function
    constructor(name,age,designation){
        //all properties defined as they were in the constructor function
        this.name = name
        this.age = age
```

```
this.designation = designation
        this.displayName = function() {
          console.log("Name is:",this.name)
10
11
12
13
      //getAge method returning the age of the current object
14
15
      getAge(){
        return this.age
17
    //creating an object instance named "employeeObj"
    var employeeObj = new employee('Joe',22,'Developer')
21
    //displaying the properties of employeeObj
22
    employeeObj.displayName()
    console.log("Age is:",employeeObj.getAge()) //calling the getAge function
    console.log("Designation is:",employeeObj.designation)
[]
```

Explanation

The <code>getAge</code> function is being defined outside of <code>constructor</code> function in <code>line</code>

15. All such methods are stored in the <code>prototype</code> object of <code>employee</code>. A new object, such as <code>employeeObj</code>, has access to all the methods defined in the class. When called by <code>employeeObj</code>, the method <code>getAge</code> is taken from <code>employee.prototype</code>.

Get/Set Methods

Get/Set *keywords* were discussed previously; they can also be used in classes to get property values.

Example

Let's take a look at an example below:

```
//creating a class named employee
class employee{
  //creating the constructor function
  constructor(name, age, designation){
    //all properties defined as they were in the constructor function
    this.name = name
    this.age = age
    this.designation = designation
```

```
//defining methods in a class
  //getname method returning the name of the current object
 get getname(){
    return this.name
  }
  //setname method setting the name
  //and displaying the name and the number of alphabets in the name
  set setname(val){
   this.name = val
    console.log("New name is:", this.name)
    console.log(`The name ${this.name} has ${val.length} alphabets`)
 }
}
//creating an object instance named "employeeObj"
var employeeObj = new employee('Joe',22,'Developer')
//displaying the properties of employeeObj
console.log("Name is:",employeeObj.getname)
console.log("Designation is:",employeeObj.designation)
console.log("Age is:",employeeObj.age)
employeeObj.setname = "Ted"
```







()

Explanation

Similar to the other methods defined in a class, both getname and setname will be defined in the employee.prototype object.

- The getname method returns the name property of the current object.
- The setname method updates the value of name in the current object and displays both the new name and the number of alphabets in it.

In the next lesson, let's discuss how to protect the properties defined in a class.