OBJECT-ORIENTED PROGRAMMING: PART 1



PROGRAMMING PARADIGMS

Imperative

Declarative



THE PERAITIVE PARADIGM





Aspect Oriented

Object oriented



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- Agent-oriented
- Component-oriented
- Prototype-oriented



DECLARATIVE PARADIGM

Functional

Logical Logical



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A programming methodology based on the representation of a program as a collection of objects, each of which is an instance of a particular class, and the classes form an inheritance hierarchy.



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- Abstraction
- **Encapsulation**
- **Inheritance**
- Polymorphism



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A universal, complex data type consisting of a thematically single set of "fields" (variables of more elementary types) and "methods" (functions for working with these fields), that is, it is a model of an information entity with internal and external interfaces for operating its content (field values).



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An entity in the address space of a computing system that appears when a class is instantiated.



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- Inner interface
- **External** interface



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These are properties and methods that can be accessed only from other methods of the object, they are also called "private".



EXTERNATION FOR THE RIGHT AND THE RIGHT AND

These are the properties and methods available outside the object, they are called "public".



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```
1 function Car() {
2   console.log('Car was created');
3 };
4
5 const car = new Car();
6
```



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```
1 function Car(color) {
2 this.color = color;
3 };
5 const car = new Car('red');
7 console.log(car.color);
```



Exercise to the read of the control of the control

```
1 function Car(color) {
    this.color = color;
     this.getColor = function() {
      return this.color;
7 };
 9 const car = new Car('red');
10
11 console.log(car.getColor());
12
```



The part of the pa

```
1 function Car(color) {
2 \quad const \quad wheels = 4;
3 };
5 const car = new Car('red');
7 console.log(car.color);
8 console.log(car.wheels);
```



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```
1 function Car(color) {
     let mileage = 0;
    const changeMileage = function() {
      mileage++
 6
    this.start = function() {
       changeMileage();
10
11
    this.getMileage = function() {
       return mileage;
13
14 }
15 };
17 const car = new Car('red');
18 car.start();
19 console.log(car.getMileage());
```



HERE GOES!



