Object Oriented Programming (OPP)

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Paradigma OOP

 Python permite programar orientado a funciones y orientado a objetos.



OOP Paradigm

Estructura General

Object

Constructor

Attributes

Methods

Example (Constructor and Atributtes):

```
class Student:
    def __init__(self, name, major, id):
        self.name = name
        self.major = major
        self.id = id
    Constructor, with
```

- Constructor Runs Automatically when the object is created
- self, indicates the object itself

Example (Methods, Getters, and Setters):

```
class Student:
    def __init__(self, name, major, id):
        self.name = name
        self.major = major
        self.id = id

def get_major(self):
        return self.major

    def set_major(self, new_major):
        self.major = new_major

        return self.major
- Methods: Getters and
Setters
-The constructor is a
method
```

Example (Instances):

'Literatura'

```
Maria = Student("Maria", "Filosofia", "1234")
                                                                       Instance 1
Maria.get major()
'Filosofia'
Dario = Student("Dario", "Administracion", "3456")
                                                                        Instance 2
Dario.set major("Literatura")
Dario.get major()
```

Paradigma OOP

Instances of the class Androide



References

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