**Python texts**

*"What is a Class in Python?"*

**Conteúdo:**

In Python, a class is like a blueprint for creating objects. It defines a set of attributes and methods that the created objects will have. For example, a Car class might have attributes like color and speed, and methods like drive() and brake().

**Vocabulário Técnico:**

* *Class*: A blueprint for creating objects.
* *Object*: An instance of a class.
* *Attribute*: A variable that belongs to a class or object.
* *Method*: A function that belongs to a class or object.

**Questões de Compreensão:**

1. What is a class in Python?

Its like a blueprint that is used to create an object

1. How do you create an object from a class?

You need to instance the object

1. What is the difference between an attribute and a method?

A method receives a attribute, and uses that attribute to do something

*"Understanding Polymorphism in Python"*

**Conteúdo:**

Polymorphism allows objects of different classes to be treated as objects of a common superclass. It is achieved when different classes implement the same method in different ways. For example, both Dog and Cat classes might have a speak() method, but each implements it differently.

**Vocabulário Técnico:**

* *Polymorphism*: The ability of different classes to be treated as instances of the same class through a common interface.
* *Encapsulation*: The bundling of data and methods that operate on that data within one unit.
* *Abstract Class*: A class that cannot be instantiated and is designed to be subclassed.

**Questões de Compreensão:**

1. What is polymorphism in Python?

Is when you have a class that is a subclass, and a class that is a superclass. They share the same attributes and methods, but they too can have different attributes and methods. Or the same method and attribute but with a different way to act. Like a method getFuel() in a car and electric car. In a class Electric Car, getFuel() will be overwrited because, a electric car has a battery

1. How does polymorphism benefit object-oriented programming?

Polymorphism makes the project easy to read and understand, it organizes the code.

1. Can you provide an example of polymorphism?

We have two classes: Car and Electric Car. Electric car is a subclass to Car, because Electric Car is a car, so they share almost all the same attributes and methods. So Electric Car it’s the subclass, and Car is the superclass