Python

15th March, 2022

Classes

- They are features of object oriented programming (OOP).
- Allows one to create a complex code that is also reusable.
- → They are defined by 'class' followed by the name.
- → They are made up of functions and attributes that explains the features and behaviour of the code.

Terms that is used with classes

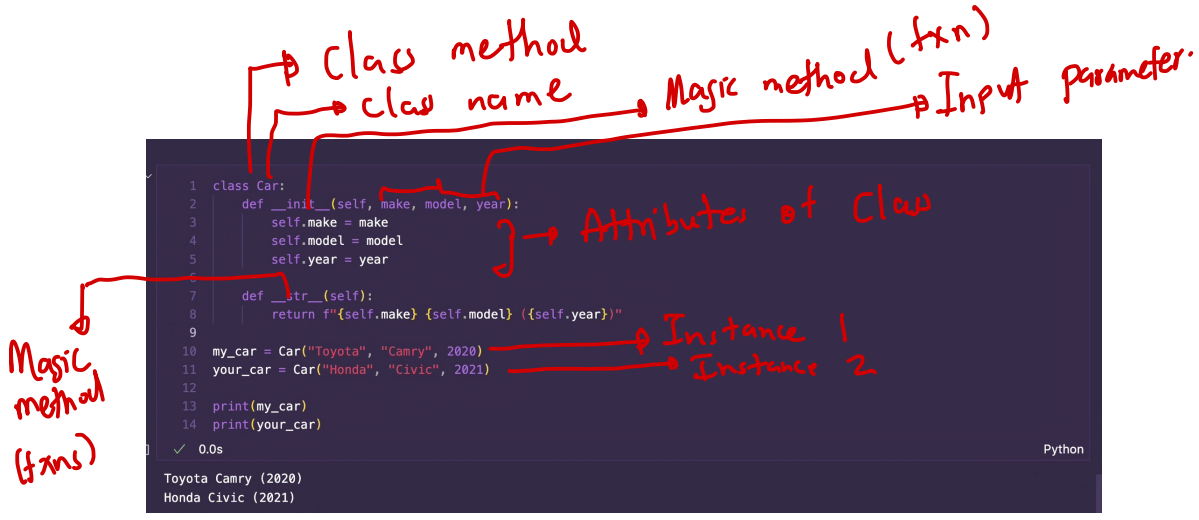
- Attributes
- Instances
- Methods

Attributes : features of the class

Methods : How the code should behave or fxn when it's called. There can be several methods doing different things in the same class. They are defined as fxns.

Instance : This refers to a specific object created from the class. It has it's own unique attributes and method

You can create multiple instances of the same class.




```python
class Car:
    def __init__(self, make, model, year):
        self.make = make
        self.model = model
        self.year = year

    def __str__(self):
        return f"{self.make} {self.model} ({self.year})"

my_car = Car("Toyota", "Camry", 2020)
your_car = Car("Honda", "Civic", 2021)

print(my_car)
print(your_car)
```

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```
Toyota Camry (2020)
Honda Civic (2021)
```