### Exercise 1.5: Object-Oriented Programming in Python

#### Learning Goals

* Apply object-oriented programming concepts to your Recipe app

#### Reflection Questions

1. In your own words, what is object-oriented programming? What are the benefits of OOP?

Object-oriented programming (OOP) is a programming paradigm that organizes code into objects, which are instances of classes. This way code can be reused, through inheritance, it can be easily modified, extended and it's easy to mantein.

1. What are objects and classes in Python? Come up with a real-world example to illustrate how objects and classes work.

Classes are main categories, like Animal or Car, while the object is an element of that group, like “cat” or “ford focus”

1. In your own words, write brief explanations of the following OOP concepts; 100 to 200 words per method is fine.

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| **Method** | **Description** |
| Inheritance | Properties and methods can be passed from one class to another |
| Polymorphism | A method has the same name in different classes but it perform a different task in each of them when attached to the class name |
| Operator Overloading | Defining methods for operators to ne used in pythons’s classes |