Contents

Object Oriented Programming using Python

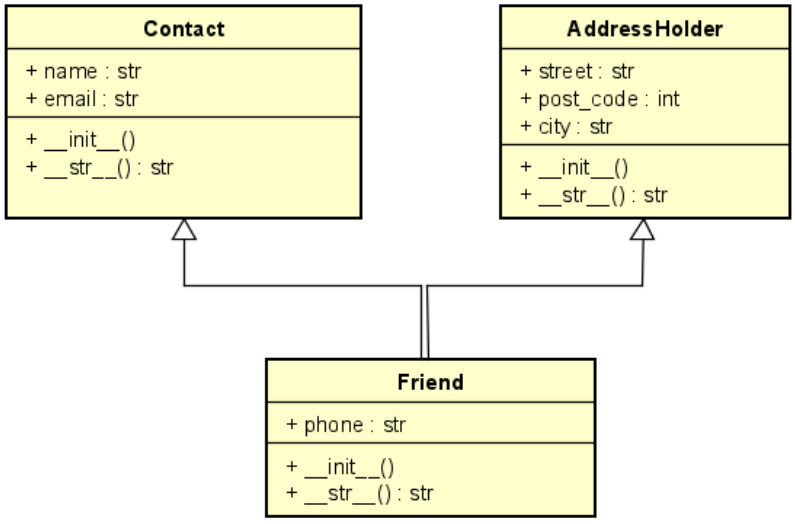
In this exercise, we are going to practice some of the object-oriented programming concepts and principles using the Python programming language.

8.1 – Classes and Objects

Python Create a class called **MyRecipe** with two fields **calories** and **cooking_time**. Add a ***cook***() function to simulate cooking by just printing out a message. Create the corresponding object and print out five of your favourite recipes.

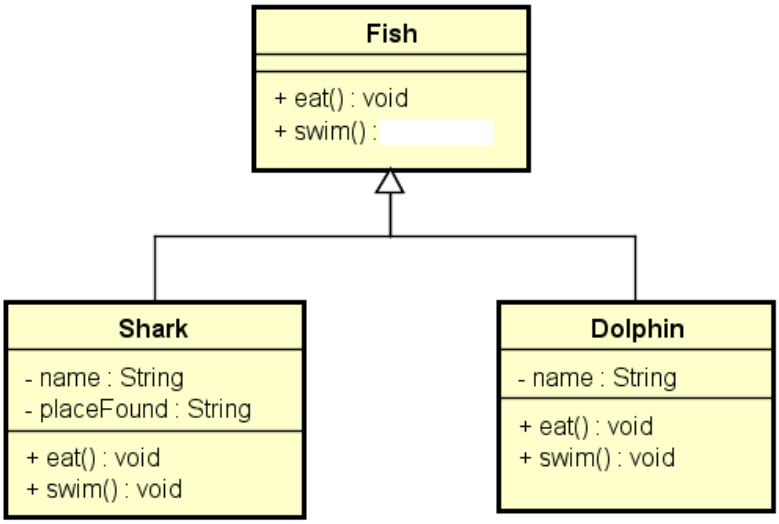
8.2 – Inheritance

Implement the following class diagram paying attention to the two parent __init__ methods and a new attribute phone, assuming we want to add a phone number for our close friends. Test your implementation.



7.3 – Polymorphism

Implement the following class diagram and test it with examples of your choice.



8.4 – Abstraction

Implement the following class diagram. Note that the CaffeineDrink is an abstract class and get_price() an abstract method.