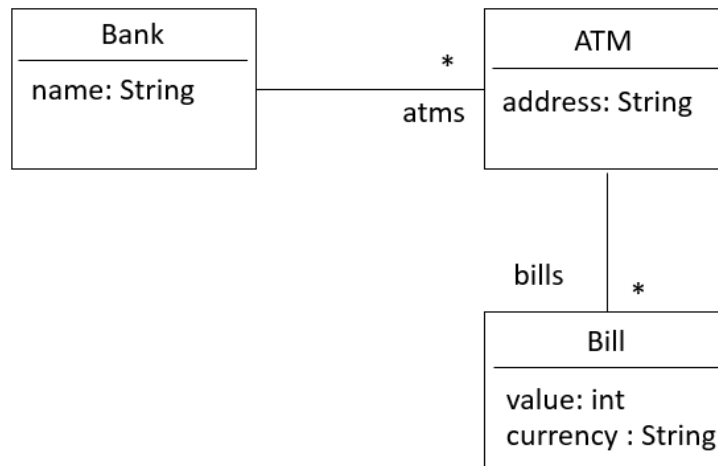**EXERCICE 1** (25 pts)

1. **super** keyword is used to refer immediate parent class object. *(3pts)*
    A. True   B. False

2. To **extend** Animal to Tiger class we write: *(3pts)*

    a. class Tiger implements Animal

    b. class Tiger extends Animal

    c. class Animal extended Tiger

    d. interface Tiger implements Animal

3. What is the role of the **constructor**? *(3pts)*
    a. creates an instance of a class (an object)

    b. creates names for methods

    c. to create some type of change in the state of an object

4. A **class** is: *(3pts)*
    a. an object

    b. an executable piece of code

    c. an abstract definition of an object

    d. a variable

5. An **object** is: *(3pts)*
    a. an instance of a class

    b. a data structure

    c. a variable

    d. an executable piece of code

EXERCICE 2 (25 pts)

Convert the bellow diagram below to **Dart** code.

EXERCICE 3 (25 pts)

Understand the given problem and answer the questions

- A school has many teachers and many classes
- Each class has one teacher which is the coordinator of the class
- Teachers and classes and schools have a name
- Teachers have many skills (example: Java, PHP, English)

Q1 – Write the Dart code related to the problem.

EXERCICE 4 (25 pts)

Understand the given problem and answer the questions

- All drinks have a name and a price
- Coffee is a drink, but has additionally a quantity of sugar
- Orange juice is a drink, but has additionally has a number of oranges

Q1 – Write the Dart code related to the problem.