

## OBJECT ORIENTED PRINCIPLES.

### Lab02: A First Java Application.

On this lab a first Java application is proposed.

- The folder **src** contains the code of the Java application.
  - o MyMain.java => This class tests the functionality of Lab02. This class is provided completed, so you must not modify it.
  - o Dog.java => Our first pure Object Oriented Programming Java class, modelling the concept of a dog. You must complete this class.
  - o Cat.java => Our second pure Object Oriented Programming Java class, modelling the concept of a cat. You must complete this class.
- The folder **javadoc** contains the documentation of the Java application.
  - o MyMain.html => This file contains the description of the class MyMain.java.
  - o Dog.html => This file contains the description of the fields, constructor, get methods, set methods and extra functionality of the class Dog.java. Use this file to guide you in completing the code of the file Dog.java.
  - o Cat.html => This file contains the description of the fields, constructor, get methods, set methods and extra functionality of the class Cat.java. Use this file to guide you in completing the code of the file Cat.java.
- The folder **results** contains the expected results of the Java application.
  - o result\_option\_1.txt => This file contains the output obtained from running the lecturer's solution when using <option = 1> in the main method of MyMain.java. That is, when the Java application is used to test the functionality of the class Dog.
  - o result\_option\_2.txt => This file contains the output obtained from running the lecturer's solution when using <option = 2> in the main method of MyMain.java. That is, when the Java application is used to test the functionality of the class Cat.

### Actions:

1. Complete the classes Dog.java and Cat.java.  
The fields, constructor, get methods, set methods and extra functionality must follow the description given by the Javadoc files Dog.html and Cat.html, respectively.