Assignment: Animals

The assignment covers the following learning goals:

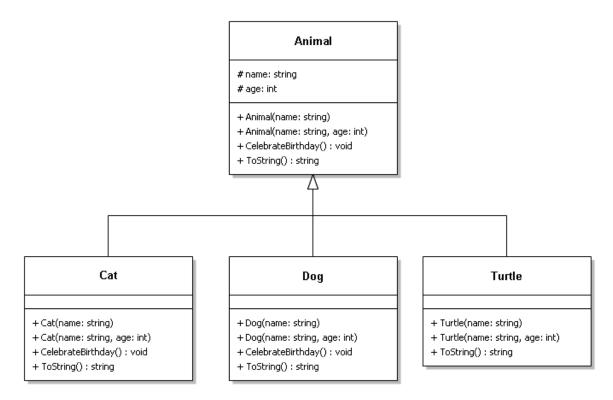
• You can apply inheritance in your implementation.

Question difficulty: ★★☆☆☆

Case description

This assignment is to get you acquainted with the syntax involved with Inheritance. You will have to implement the supplied UML Class Diagram and do <u>not</u> have to implement a GUI for it (i.e. using the classes).

UML & Screenshots



UML CLASS DIAGRAM 1: ANIMALS

Animal		
Constructors & methods	Description	
Animal	When the age is not supplied, an animal should get the age 1	
CelebrateBirthday	Increase the <i>age</i> by one. Make sure that an animal can be at most 100 years old	
ToString	Return a string in the following format: <name> (<age> year)</age></name>	

Cat	
Constructors & methods	Description
Cat	When the age is not supplied, a cat should get the age 1
CelebrateBirthday	Increase the age by one. Make sure that a cat can be at most 25 years old
ToString	Return a string in the following format:
	Cat: <name> (<age> year)</age></name>

Dog		
Constructors & methods	Description	
Dog	When the age is not supplied, a dog should get the age 1	
CelebrateBirthday	Increase the age by one. Make sure that a dog can be at most 20 years old	
ToString	Return a string in the following format:	
	Dog: <name> (<age> year)</age></name>	

Turtle		
Constructors & methods	Description	
Turtle	When the age is not supplied, a turtle should get the age 1	
ToString	Return a string in the following format:	
	Turtle: <name> (<age> year)</age></name>	

Additional features

Add additional animals.

Add additional methods in *Animal* and decide for yourself if they need to be overridden.