ESPITE Se former autrement

Prosit 5

Instruction 20:

To simplify the management of animals in our zoos, we identify 2 main families of animals: **Aquatic and Terrestrial**.

- An aquatic animal is characterized by a "habitat" (String), which indicates where it lives.
- A terrestrial animal is characterized by "nbrLegs" (int), which indicates the number of its legs.

An aquatic animal can be:

- A dolphin (Dolphin) is characterized by the attribute "swimmingSpeed" (float), which indicates its swimming speed.
- A penguin (Penguin) is characterized by the attribute "swimmingDepth" (float) describing the depth to which it can swim underwater.

Create these classes by declaring only the attributes.

Instruction 21:

Create, in the main method, an instance of each class previously declared using the default constructors.

Instruction 22:

Create parameterized constructors in all the child classes.

Nb: Don't forget to protect previously declared attributes.

What do you notice about the main method?

Correct any errors you find.

Instruction 23:

Redefine the "toString()" method in the subclasses, to include common and specific attributes.

Display the previously created objects in the main method.

Instruction 24:

Create the "public void swim()" method in the :

- Aquatic class, which displays the message "This aquatic animal is swimming".
- Dolphin class, which displays the message "This dolphin is swimming.

Call this method using the 3 objects of type Aquatic, Dolphin and Penguin.

What do you notice?