INHERITANCE

Exercise 7

Akademia Finansów i Biznesu Vistula
Studia globalnych możliwości

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TASK 1.

Please write a program in which the inheritance process will be used - the **Staff** class will inherit from the base class **Person**.

The **Person** class contains fields: **surname**, **first name**, **street**, zip**Code**, **city** and two methods (can be void) **initialize**() and **print**(). The first one allows you to enter data, while the second one displays it on the console.

The **Staff** class includes two additional fields: education and position, and two additional methods (also of void type): **initialize1**() and **print1**() - both of these methods call the appropriate methods from the Person class in their bodies, but also implement handling (downloading and displaying) fields with Staff class.

In the other class create main() method, and create an object (we can use the default constructor) of the class Staff and call the methods on it.

TASK 2.

Please write a program which will use the inheritance process and the multi-level class hierarchy.

The base class for all classes will be **abstract** Animal class, from which the following classes will be inherited: Mammal, Bird, Fish.The

Mammal class will be the base class of the Dog parent class.

The Fish class will be the base class for the Blowfish parent class.

The Bird class will be the base class for the parent Pigeon class.

Each class is a separate file in one package.The Animal class has name, age, and weight fields, and **eat**() and **getVoice**() **abstract** methods.

All classes have an additional field (e.g. the Bird: String featherColor class, and the Pigeon String: species class.)overrides the base class methods (giving them the proper sense for a given species) and adds its own one method specific to the given species class.

Each class is to have three constructors (default, using all parameters (also from base classes) and usingsome parameters).

Each class has accessors (get and set for its fields) and a toString() method.

In the main class, we create an array of Animal reference and create all objects from our classes (using different designers). And then we call selected methods on individual indexes.

THANK YOU

Więcej na:

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