FUNDAMENTALS OF ALGORITHMS AND PROGRAMMING

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03 - Java - class - basics

Exercise 1.

Write a declaration of the Account class in which we store the following information about the owner of the account (as private fields): name, surname, balance, accountNumber.

The class contains the following public methods:

- constructor setting the private class fields based on its parameters
- a non-parametric constructor (does nothing)
- method display that displays all data on the screen
- method toString
- methods get that returns values of the private class fields
- methods set that allows to set values of the private class fields
- method increaseBalance that increases balance by value given as its parameter
- logical method decreaseBalance that decreases balance by value given as its parameter and returns true if the operation was successfull (remember that the owner of the account can't be in debt)

Exercise 2.

Write a declaration of the **Employee** class that contains the following private fields:

- name
- surname
- yearOfBirth
- salary represents basic monthly salary
- employmentYear that represents the year in which he was hired

The class contains the following public methods:

- a non-parametric constructor (does nothing)
- constructor setting the private class fields based on its parameters
- methods get that returns values of the private class fields
- methods set that allows to set values of the private class fields
- method toString

- method display that displays all data on the screen, including age and years of employment
- \bullet method giveRise that allows to give rise to the employee