Examenvragen / opdrachten

cvo leerstad
volwassenenonderwijs

Naam cursist:

Geb. datum en -plaats:

Evaluatie   /

1. Create a class MoneyConvertor that performs the following:
   › Is constructed with an amount representing the change rate from one money to another one (for example : 1 Eur = 40.3399 BEF)
   › Take an amount in the first money and convert it to the second.
   › Take an amount in the second money and convert it to the first.

2. Create a class Employee that holds the following information :
   - foreName
   - name
   - employeeID : this number receives the employee when he enters the company .

   › An instance of the class must be able to give his full name, his employeeID and return a combination of the two (as a String, in a method named toString()).
   › When a new employee is created,
   - the foreName and the name must be given.
   - the employeeID must be determined when the Employee is created AND each employee must have an unique ID. (The constructor of Employee MUST not take an employeeID as parameter)
   › A static variable should be usefull to determine the next employeeID.

3. We will represent a box in which an item can be put.
   › Create a class Item. An item has a name and a weight (given as arguments in a constructor).
   › Create a class Box.
   › a box has also a name and a empty weight (given as arguments in a constructor).
   › a box can contain ONE item at time, or be empty.
   - It must have a method to place an item into it and another one to retrieve it.
   › the weight of the box when it contains the item is : empty weight + item weight

   Example : A standard box has a empty weight of 5 Kg. When we put into it a television which has a weight of 15 kg, te weight of the box becomes : 20 Kg.

4. Create a class IntArrayManipulator that:
   › has a method sum that takes as parameter an array of int and returns the sum of the values.
   › has a method indexOf that takes as parameter a array of int an a int and returns the index of the first occurence of this int in the array (or -1 if it is not stored into it)
   › has a method findGreatest that takes as parameter an array of int (with a size greatest than 0) and returns the greatest value stored in the array.