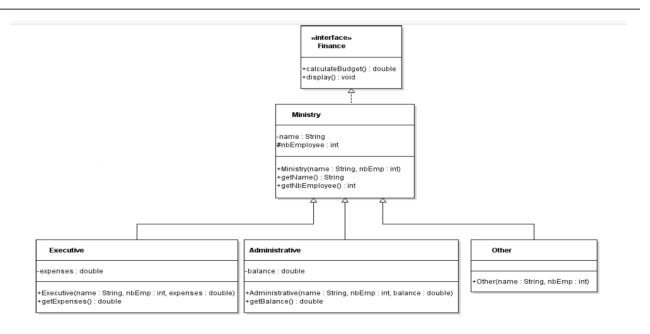




CSC 113: Java Programming-II

Tutorial: Abstract Methods and Interface



Finance interface:

- Methods:
 - calculateBudget (): This method calculates and returns the budget of a Ministry. The budget of a Ministry is calculated as follows:
 - Executive:

Budget = expenses + nbEmployee * 1.5

Administrative:

Budget = nbEmployee * 10000 - balance.

Other

Budget = nbEmployee * 10000.

display(): display all the attributes

Ministry class:

- o Attributes:
 - *name*: the name of the ministry.
 - nbEmployee: number of employees in the ministry
- Methods:
 - Ministry(name: String, nbEmp: int): constructor
 - getName (): this method returns the name of the ministry.
 - getNbEmployee (): this method returns the number of employees of the ministry.

Executive class

- o Attributes:
 - *expenses*: the expenses of the ministry.
- Methods:
 - Executive(name: String, nbEmp: int, expenses: double): constructor.
 - *getExpenses()*: this method returns the amount of expenses.

Administrative class:

- o Attributes:
 - balance: the basic salary allocated for the role.
- Methods:
 - Administrative (name: String, nbEmp: int, balance: double): constructor.
 - *getBalance ():* This method returns the balance of the administrative ministry.

Other class:

- Methods:
 - Other (name: String, nbEmp: int): constructor.

QUESTION: Translate into Java code the following. We assume the remaining classes are available.

- The interface *Finance*.
- The class *Ministry*.
- The class *Executive*.