THALES



EGF Exercices – Factory Component–UC1 EGF 0.2.4

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Objective of this document

Understanding how to develop factory components with EGF

Correction of the exercices

Download the org.eclipse.egf.usecase.fc.uc1-egf0.2.4.zip file on the EGF wiki

Prerequisite

- Installation of egf 0.2.4
- Understanding how to create factory components is explained in the « Eclipse Help/EGF section/Tutorials »



Problem Statement

▶ 1. Writing a Java Task with one parameter, named *value*, which displays:

« Hello [value]! »

- The default value of *value* is « World »
- Writing a factory component which calls the Java Task 1) without value for « value », 2) with a value for « value »

Learning

Creation of factory component and Java Task

Difficulty

1/5

Correction

FC_UC1_1_FCAndTask.fcore



Problem Statement

- 1. Writing a factory component FC1 with one contract. This contract is used to invoke the Java task of the exercice 1.
- ▶ 2. Writing a factory component FC2 which calls FC1 and provides the value to FC1.

Learning

Factory component contract

Difficulty

1/5

Correction

FC_UC1_2_FCWithContracts.fcore



Exercice #3 (+)

Problem Statement

- 1. Writing a PricerComputation Java task which computes an amount from a quantity and a price
- 2. Writing a PricerDisplay Java task which displays a quantity, a price and an amount
- ▶ 3. Writing a factory component which calls PricerComputation and PricerDisplay to compute and display an amount from a quantity and a price

Learning

Factory component contract I / Out mode

Difficulty

2/5

Correction

- ► FC_UC1_3_FCPricer.fcore
- The correction presents 1) a solution with the task invokation, and 2) a solution with intermediary factory components only to understand In and out passing mode between factory components and tasks

