SMA: Software Modeling and Analysis

Practical Session

Week 02
Assignment 01

Discussion
Thank you for your registration on Piazza and Academia.
Assignment 02

Preview
A02 - Exercise 01

Nature of *Smalltalk and Pharo*.

a) Name three major benefits Pharo provides in comparison to Java.

b) How can you export the current image of your Pharo working environment?

c) What is a message in Pharo?

d) What is a block in Pharo?
A02 - Exercise 02

Pharo object inspection.

a) What is the message that is sent to a superclass to find all its subclasses?

b) What is the difference between a String and a Symbol object in Pharo? Why is it important?

c) How can you create an abstract method in Pharo?

d) Write the a Smalltalk block, and execute it with some specific values.
A02 - Exercise 03

Even more Pharo *coding*.

a) Find the top 10 most frequently invoked methods.

b) Find the top 10 methods invoked on the largest number of different objects.

c) Find all static methods.
A02 - Exercise 03
Exercise Procedure

1) Drag & Drop the downloaded *.st file into Pharo

2) Select “Install into new change set”

3) Store the *.txt file in the application folder of Pharo

4) Now, the “CallGraph” package should be available and working in Pharo