MacBook-Air-de-Cedric:LAB1 Cedric\$

Advanced Web Technologies: Questions LAB 1

Question 1.3:

```
When INFO is set on log4j.properties, only « INFO » tool displays:

MacBook-Air-de-Cedric:LAB1 Cedric$ java -cp target/hello-0.0.1-SNAPSHOT-jar-with]
-dependencies.jar ex01C.Log4jBasics
23:23:35,780 INFO Log4jBasics:9 - INFO: Cool!

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When DEBUG is set, "DEBUG" and "INFO" tools are shown on terminal:

[MacBook-Air-de-Cedric:LAB1 Cedric$ java -cp target/hello-0.0.1-SNAPSHOT-jar-with]
-dependencies.jar ex01C.Log4jBasics
23:24:25,828 DEBUG Log4jBasics:8 - DEBUG: Cool!
23:24:25,831 INFO Log4jBasics:9 - INFO: Cool!
```

Question 1.5:

The m() method called in (1) is the m() method of class C, as we can see in the second line:

```
[MacBook-Air-de-Cedric:LAB1 Cedric$ java -cp target/hello-0.0.1-SNAPSHOT-jar-with]
-dependencies.jar ex01E.C
Je suis dans la méthode m d'une instance de B
Je suis dans la méthode m d'une instance de C
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```

Normally, "((B)this).m()" should return a method m() in class B.

But as class C inherits of class B and redefine method m(), that's method m() of C which is called. That is a kind of polymorphism, by **overriding**.

Question 1.6:

The terminal displays the characteristics of the circle C1:

```
MacBook-Air-de-Cedric:LAB1 Cedric$ java -cp target/hello-0.0.1-SNAPSHOT-jar-with]
-dependencies.jar ex01F.ToStringOverloading
C1 => Circle with center (0,0) and radius 5 (Perimter is 31,42)
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```

The method toString() is called without even being named because of the println() method. In fact, println(object x) automatically call the toString() method on the object x in parameter.

If we rename the method toString(), the result C1 is not converted into string anymore:

```
MacBook-Air-de-Cedric:LAB1 Cedric$ java -cp target/hello-0.0.1-SNAPSHOT-jar-with]
-dependencies.jar ex01F.ToStringOverloading
C1 => ex01F.Circle@7b23ec81
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```