**CS 3723 Programming Languages**

Assignment #4 – Reflection in Python and Java.

Delivered Oct 19, 2019. Due Nov 9 (3 weeks). 40 points.

I am giving you reflect.py which works in both Python 2.7 and Python 3.x. Your assignment is to convert it to Java so it performs nearly the identical task and gets approximately the same output. You must still use Reflection in Java. I have also provided Reflect.java which is incomplete. There are two pieces of code that you must implement, both marked with // TBD.

The Java info method is worth 15 points.

The Java modify method is worth 25 points.

You must submit both the Java code and Java output. Do not submit the Python code and output. Create a zip file called LastName\_abc123.zip.

Python output is:

\*\* Field = a is int

\*\* Field = b is float

\*\* Field = c is int

\*\* Field = d is float

\*\* Field = m is str

\*\* Field = n is str

[1, 200.0, 3, 400.0, 'a', 'xy']

[10, 210.0, 30, 410.0, 'aa', 'xyxy']

[100, 220.0, 300, 420.0, 'aaaa', 'xyxyxyxy']

Java output is:

\*\* Field = a is java.lang.Integer

\*\* Field = b is java.lang.Double

\*\* Field = c is java.lang.Integer

\*\* Field = d is java.lang.Double

\*\* Field = m is java.lang.String

\*\* Field = n is java.lang.String

[1, 200.0, 3, 400.0, a, xy]

[10, 210.0, 30, 410.0, aa, xyxy]

[100, 220.0, 300, 420.0, aaaa, xyxyxyxy]