

Lab Report 4

(Introduction to OO Programming)

Name: Pedro Damian Sanchez Jr

Red-Id: 131076917

Reflection:

The First Design Principle states that every class in a Java project database should perform only one specific task. This is important because it helps to keep all source code well organized and easily comprehensible. Since each class has only one responsibility to carry out, it is easier to follow what it is meant to execute and how it fits into the overall system. This can help prevent errors from popping up and make it more efficient to maintain the code.

In Java, a factory pattern is a design pattern that allows you to create objects without specifying their concrete type. This can be useful when you want to decouple your code from the concrete types of objects that it being used. One example of a factory pattern in this lab assignment is the Registrar Test class. On the contrary a strategy pattern is a behavioral design pattern that allows you to define and encapsulate a set of algorithms, making them interchangeable. This rhythm is useful when running switch-statement based sequences during compilation.