***IMPLEMENTATION FOR JUnit***

JUnit is a unit testing framework for the Java programming language. JUnit has been important in the development of test-driven development and is one of a family of unit testing frameworks which is collectively known as xUnit that originated with SUnit.

In Junit testing, we used a test fixture a state code which is tested used as input for a test. For example, a test fixture is a string of Hadoop class, which is used as input for a method. The test would validate if the method which gives the calculates the CBO for a given class behaves correctly with this input. A JUnit test consists of a method contained in a class which is only used for testing. We are using an assert method, provided by JUnit or another assert framework, to check an expected result versus the actual result. These method calls are typically called asserts or assert state. The assertEquals() method compares two objects for equality, using their equals(). Here it checks the expected value that we pass the results provided by SOURCEMETER and the value that comes out of the JUnit method. If the two objects are equal according to the implementation of their equals () method, the assertEquals() method will return normally. Otherwise, the assertEquals() method will throw an exception, and the test will stop there showing the red bar on the console.

For the conditions to calculate the CBO, we are using the definitions given by SOURCEMETER.

We have taken a set of classes from Release 3.0.0 named as

1. NMProxy.java
2. CommonConfigurationKeysPublic.java
3. Configuration.java
4. ServerProxy.java

And the CBO has been calculated for NMProxy.java.

The logs and NMproxy.java(test class) are placed in the respective folder of COUPLING.