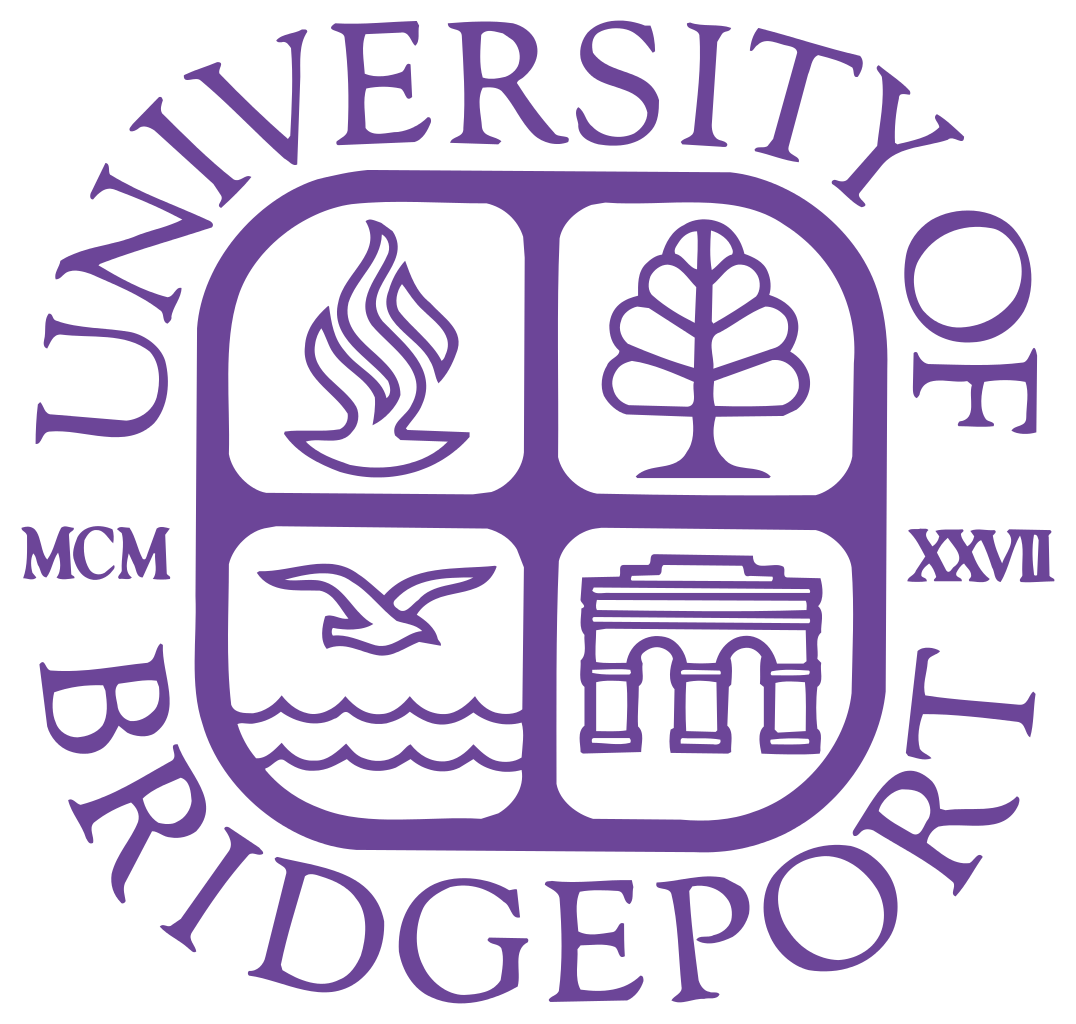
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**Bashar Alhafni**

**Assignment #4**

**Objective:**

**Problem #1**: Create a Complex class in a Test Driven Development style. Overload all the necessary operators +, -, /, \*, ==, !=, ++, --. First create the Currency class where there is just enough code in overload of each operator to return a zero result. Then create detailed unit tests for all possible combinations of input data for each operator. A separate test class needs to be created for testing each operator. Show that all tests fail in the beginning. Then modify the code in each operator overload method until all tests for it pass.

**Problem #2**: Repeat problem 1 for the Currency class. Note that some operators for the currency class may not be needed such as \* and /

**Approach Explanation:**

**Part 1:** I created a project called Operators Overloading that has 2 class classes, a Complex class and a Currency class.

For the Complex class, I overloaded the following operators: >, <, ==, !=,++,--,+,-,\* and /. For the <, >, -- and ++ I only considered the real part of the complex number.

I used a TDD approach in order to make sure that all the overloaded operators are functioning correctly. I created a ComplexTest project that has 13 test methods to make sure that all the operators are functioning properly.

**Part 2:** For the Currecny class, I overloaded the following operators: >, <, ==, !=, ++, --, + and –

I also used TDD approach in order to make sure that all the operators were overloaded correctly. I created a CurrencyTest project that has 17 test metods.

**Screenshot:**

Here’s a screenshot showing that all the test methods passed

