

LAB 8: ITECalculator

In this lab, you will continue your ITECalculator that allows the user to do binary arithmetic operations.

- A. Create a new class named it **BinaryArithmetic**. The **BinaryArithmetic** class will consist of wide ranges of methods to perform binary arithmetic operation.
- B. Please add Javadoc comment to above the class to explain the purpose of this class and above each method to explain it.
- C. In the **BinaryArithmetic** class, please add the following methods
 1. **binaryAdd** to do the binary addition
 2. **binarySubtraction** to do the binary subtraction
- D. In the **BinaryArithmetic** class, please create a nested class (Static or Non-static) named **Complement**. Inside nested class **Complement** please add the following methods:
 1. **findFirstComplement** is used to find binary 1's complement

Note: Please implement this three methods based on the rule that we learn in Computer Fundamental course at year 1 semester 1. Please consult with chapter 2 of the book again if you are facing problem with binary arithmetic.

- Dey, P., & Ghosh, M. (2013). *Computer Fundamentals and Programming in C* (Vol. 2). Oxford University Press.