

## Lab 5

### Exception Handling

**Learning outcome:**

At the end of this lab, student should be able:

1. to analyze the problem and construct an object-oriented program by implementing exception handling.

**Dateline:** End of week 7 - depending on your lab hour. Submit to your demonstrator before the lab session ends. Upload to Putrablast.

**\*\*** Copy or other forms of cheating is forbidden. The standard penalty for the first offence is to award 0 to all parties concerned.

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**Question**

1. Apply appropriate exception handling for your Fat Gram Calculator that you created in Lab 2 (Question 2). Throw exception such as `ArithmeticException`, `IllegalArgumentException`, etc.
2. Write Java code to input two integer values from user using `Scanner`. Calculate the division of these integer values. Add exceptions to throw or catch follows:
  - a. If division result less than 2.0, throw `NumberFormatException`
  - b. If division result greater than 2.0, throw `Exception`
  - c. If input value is not integer, catch `InputMismatchException`
  - d. If divide by zero, catch `ArithmeticException`
  - e. In finally clause, ask user to rerun the program.