NTOU Java Programming Exercise 8





Spring 2025

Exercise-Exception₁

- The FuelCalculator application consists of four classes:
 - FuelRecord.java, GasStationBrand.java,FuelCalculator.java, and FuelCalculatorTest.java
- This application can calculate the unit price of gasoline per liter. The expected results are as follows:

Please enter the cost of gasoline: 1200

Please enter the liters of gasoline: 42.3

Please enter the brand (1: CPC, 2: FPCC, 3: Costco): 2

Cost per liter of fuel for Formosa Petrochemical Corporation: 1200 / 42.30 = 28.37



Exercise-Exception₂

- Please understand the usage of the four classes first, and try to input different data for testing.
 - You will find that the application is very fragile, and you will find that many exceptions are not properly caught.
 - Please refer to ex8-original-results.txt.



Exercise-Exception₂

- Please modify the calculateFuelUnitPrice() method of the FuelCalculator class to make it fault-tolerant:
 - Fault tolerance can only be achieved using the exception handling mechanism.
 - Catch at least four exceptions that may occur, and clearly print the exception type with a clear text message and allow the user to re-input data.
 - Regardless of whether an exception occurs, please print the message "Thank you for the test!". (Use "finally")
 - Please refer to ex8-expected-results.txt (only partial results).

Requirements

- The naming should conform to the CamelCase style.
- "Package" is required: ntou.cs.java2025.
- Please submit files including .java files and .class files (upload them to TronClass).
- Code that fails to compile or execute is not accepted.

