

Applying Key Operators in the Flux Class: Case Study ex1 (Part 2)

Douglas C. Schmidt

d.schmidt@vanderbilt.edu

www.dre.vanderbilt.edu/~schmidt

Professor of Computer Science

**Institute for Software
Integrated Systems**

**Vanderbilt University
Nashville, Tennessee, USA**



Learning Objectives in this Part of the Lesson

- Part 2 of case study ex1 shows how to use Flux operators `fromIterable()`, `just()`, `doOnNext()`, `doOnError()`, `map()`, `mapNotNull()`, & `subscribe()` to create, divide, & display Big Fraction objects synchronously

Flux

```
.fromIterable (BigFractionList)

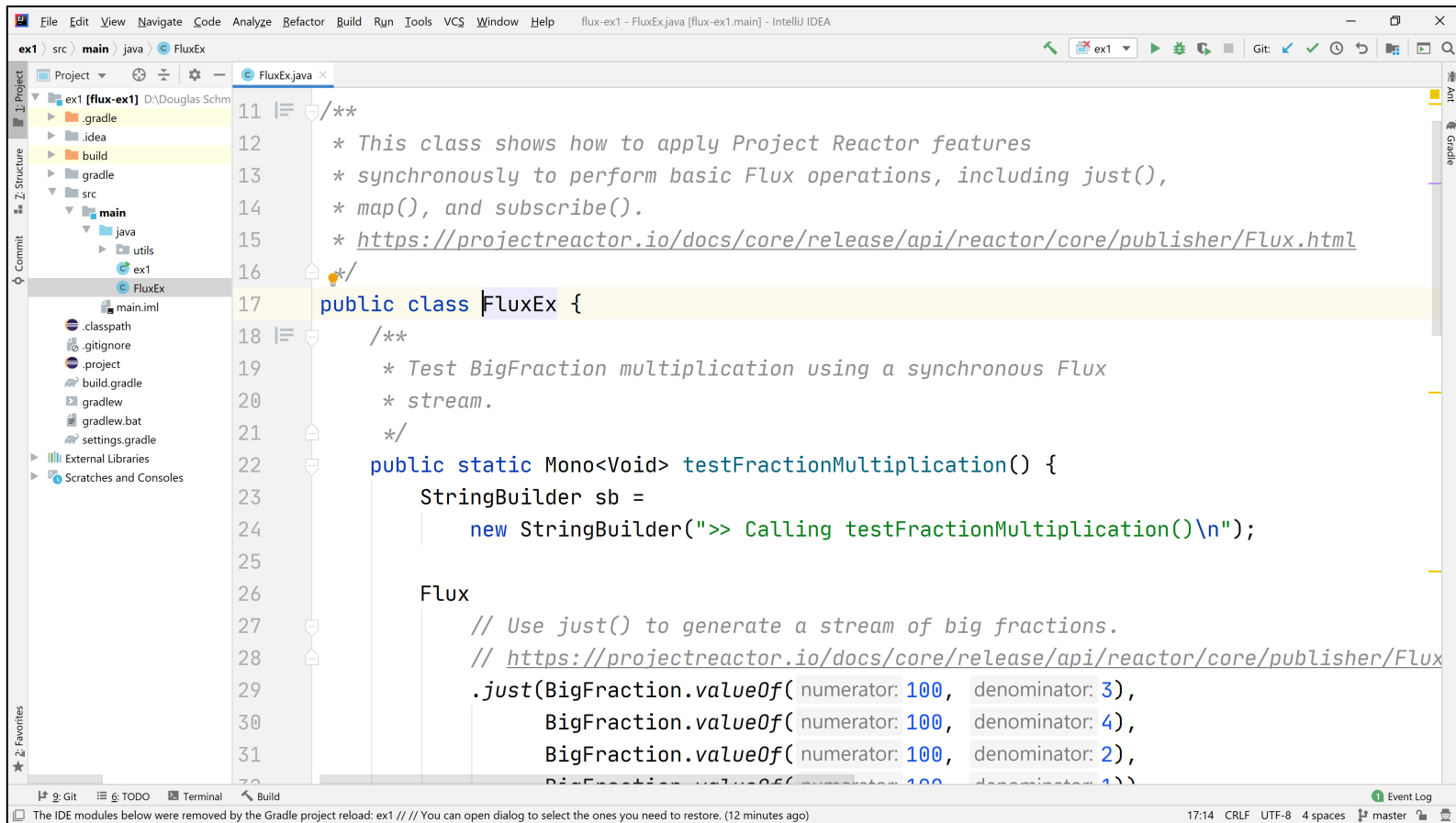
.map (fraction -> fraction
    .divide (BigFraction.ZERO) )

.doOnError (ex -> logError (ex) )

.subscribe
    (fraction -> sb.append(" = "
        + fraction.toMixedString()
        + "\n") ,
    error -> sb.append("error") ,
    () -> BigFractionUtils
        .display (sb.toString() ) ) ;
```

Applying Key Operators in the Flux Class to ex1

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```
11 /**
12  * This class shows how to apply Project Reactor features
13  * synchronously to perform basic Flux operations, including just(),
14  * map(), and subscribe().
15  * https://projectreactor.io/docs/core/release/api/reactor/core/publisher/Flux.html
16  */
17 public class FluxEx {
18     /**
19      * Test BigFraction multiplication using a synchronous Flux
20      * stream.
21      */
22     public static Mono<Void> testFractionMultiplication() {
23         StringBuilder sb =
24             new StringBuilder(">> Calling testFractionMultiplication()\n");
25
26         Flux
27             // Use just() to generate a stream of big fractions.
28             // https://projectreactor.io/docs/core/release/api/reactor/core/publisher/Flux
29             .just(BigFraction.valueOf( numerator: 100, denominator: 3),
30                 BigFraction.valueOf( numerator: 100, denominator: 4),
31                 BigFraction.valueOf( numerator: 100, denominator: 2),
32                 BigFraction.valueOf( numerator: 100, denominator: 1))
33     }
```

See github.com/douglasraigschmidt/LiveLessons/tree/master/Reactive/flux/ex1

End of Applying Key Operators in the Flux Class: Case Study ex1 (Part 2)