

Lambda workshop

Agenda

- Warming up (task 1.1, 1.2)
- Domain model traversing (task 2.1, 2.2)
- Parallel (task 3.1)

Readme

- Install JDK 8
- Install your favorite IDE

Task 1.1

- **Exercise 1:** Create a string that consists of the first letter of each word in the list of Strings provided. HINT: Use a StringBuilder to construct the result.

Task 1.2. Write factorial function in non-recursive way

Option 1. Functions to use

- LongStream.iterate
- LongStream.limit
- Stream.reduce

Option 2. Functions to use

- LongStream.rangeClosed
- Stream.reduce

Task 2.1 Traversing Domain Model

- Class `DeveloperService`. Write a function which return all languages which developers in a team can use in work
- Functions to use
 - `Stream.map`
 - `Stream.flatMap`
 - `Stream.collect`

Task 2.2 Traversing Domain Model

- Start correct test by test.
- Success criteria – test should run without errors.
- In this task you will need to write code both in tests and in src.

Task 3.1

- Look at time of test running
- Explorer option with `CompletableFuture`

Bibliography

- <https://github.com/ecabrerar/java8-learning/tree/master/oracle-mooc-java8>
- ADAM BIEN'S WEBLOG
- GS collection kata <https://github.com/goldmansachs/gs-collections-kata>
- Source Code of “Java 8 in Action: Lambdas, Streams and functional-style programming” <https://github.com/java8/Java8InAction>