Lab 3. Pipelines and Monads

Exercise 1.

In the Lab3/Data directory there is a file called Inventory Data.txt. This file contains a list of products sold by the Acme Corporation. You will write an application using functional style programming that will do the following:

1. Open and read the input data file.

2. Convert all unit prices in USD to SEK. Use a conversion factor of 10 SEK to 1 USD.

3. \ Prepare a cost of inventory report.

4 Print the report, please add headers and footers, including the number of items processed in the input file and the total cost of inventory.

5. In the conversion function, instead of converting using built in methods, such as int() and str(), use a failure monad to ensure that no exceptions are thrown.

The output should be a cost of inventory report to STDOUT.