DEBT DETECTION

Purpose

To personally talk with people whose debt has gotten too big, a loan company needs a way to classify and detect debtors with a high debt from all their databases.

Client class

Properties:

- Name
- Debt Amount
- Generated interest (in percentage)
- Number of months without payment

Debt Classification class

Properties:

- Name
- Classification (High risk or medium risk)

Process

1. From a list of a list of clients, create a single stream using flatmap.
2. Filter to get only those with failed monthly payments.
3. Map the profiles into a Debt classification list, with the name of the client and the classification string depending on their generated interest: High if it's over 300, Medium if it's bellow.
4. Sort the list by name.
5. Filter the list to only contain high debtors.
6. Get the first debtor.

Conclusion

This implementation of streams allows us to see the use of flatmap, map to transform a list into another type, and the use of a function that returns an optional. It allowed us to transform multiple times the list and get a single result.