SCS 2204 - Functional Programming

Scala Tutorial – 7

1. Implement a Data Structure for Rational Number and create a method neg to class Rational that is used like this: *x.neg // evaluates to -x*

2. Create a method sub to subtract two rational numbers and find an answer x-y-z where x=3/4, y=5/8, z=2/7.

3. Implement a Data Structure for Account and create a method transfer which transfers the money from this account to a given account.

4. A Bank is defined as a List of Accounts. So implement the following functions:

      4.1 List of Accounts with negative balances

      4.2 Calculate the sum of all account balances

      4.3 Calculate the final balances of all accounts after apply the interest function as follows:

If balance is positive, deposit interest is .05 and if balance is negative, overdraft interest is .1

Your answers should be uploaded to your repository. Post the URL of your repository to the LMS.