Scala SCS 2204 - Functional Programming
Scala Tutorial – 9

1. 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.

```
Basic functions: Deposit, Withdraw, Transfer
```

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 applying the interest function as follows:

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