

Q1)

```
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10> scala q1.scala
Compiling project (Scala 3.5.0, JVM (17))
Compiled project (Scala 3.5.0, JVM (17))
x: 1/3
Negation of x: -1/3
```

Q2)

```
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10>
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10> scala q2.scala
Compiling project (Scala 3.5.0, JVM (17))
Compiled project (Scala 3.5.0, JVM (17))
x: 3/4
y: 5/8
z: 2/7
Result of x - (y - z): 23/56
```

Q3)

```
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10>
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10> scala q3.scala
Compiling project (Scala 3.5.0, JVM (17))
Compiled project (Scala 3.5.0, JVM (17))
Initial state: Account balance: 1000.00, Account balance: 500.00
Deposited 200.0, new balance: 1200.0
Withdrew 150.0, new balance: $balance
Withdrew 300.0, new balance: $balance
Deposited 300.0, new balance: 800.0
Transferred 300.0 to the other account
Final state: Account balance: 750.00, Account balance: 800.00
```

Q4)

```
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10>
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10> scala q4.scala
Compiling project (Scala 3.5.0, JVM (17))
Compiled project (Scala 3.5.0, JVM (17))
Accounts with negative balances: List(Account(002,-500.0), Account(004,-100.0))
Total balance of all accounts: 600.0
Updated account balances: List(Account(001,1050.0), Account(002,-450.0), Account(003,210.0), Account(004,-90.0))
```

Q5)

```
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10>
PS D:\Campus\Year 2\SEM1\FP\Practicals\LabSession10> scala q5.scala
Compiling project (Scala 3.5.0, JVM (17))
Compiled project (Scala 3.5.0, JVM (17))
Total count of letter occurrences: 21
```