**Java Assessment**

For credit card monthly bill processing there is a need to prepare a report which lists of all transactions made in a month by each card. The input will be a CSV file that contains the list of all transactions happened in a month. The following will be the order in which the fields are placed in this CSV file:

1.       16-digit card number

2.       Date of Transactions

3.       Vendor

4.       Transaction Amount

**Input File**

1234567890123456,01-09-2018,Reliance Trends,5400

1234567890123457,07-09-2018,Amazon,2300

1234567890123456,08-09-2018,Jabong,3200

1234567890123458,09-09-2018,Airtel,7800

1234567890123458,11-09-2018,Tata Sky,9400

1234567890123459,12-09-2018,Tata Sky,3100

1234567890123458,12-09-2018,Netflix,400

1234567890123457,13-09-2018,Amazon,1100

1234567890123458,14-09-2018,Jabong,1200

1234567890123457,22-09-2018,Airtel,2500

1234567890123456,24-09-2018,Tata Sky,3500

1234567890123456,25-09-2018,Netflix,4200

1234567890123457,29-09-2018,Reliance Trends,2100

1234567890123459,75-09-2018,Reliance Trends,2100

**Output file details**

There should be a separate file created for each card. The content of each file should look as follows:

Find below the sample data file for card 1234567890123456.

**File name:** 1234567890123456.dat

Usage report for Card Number: 1234567890123456

Date       Vendor             Amount

====       ======             ======

01/09/2018 Reliance Trends     5,400

08/09/2018 Jabong              3,200

24/09/2018 Tata Sky            3,500

25/09/2018 Netflix             4,200

                              ======

Total                         15,300

                              ======

If formatting of transaction date fails, then no file should be generated for that particular card. But an entry should be created in an error log file mentioning the card number and date.

**SQL Assessment**

Define ER Diagram for on an online medical shop application. End user should be able to perform following applications on this application. Design the database based on these requirements:

1.       Customer can sign up with Name and Email

2.       Customer should be able to pick a list of medicines and place an order

3.       An order should address following aspects

a.       Customer

b.       Date of purchase

c.        List of items ordered with medicine name, no. of items purchase, unit price and overall price after multiplying no. of items and unit price.

d.       Total amount should be displayed