Q01) Assume that the content of the file 'file03.txt' is the following:

Lunch
Line
Day
Dinner
Laugh

What's the output of this statement:

grep -E '^L' file03.txt | tr '\n' '.'

Ans: Lunch.Line.Laugh.

Q02) Assume that the content of the file 'file04.txt' is the

following: Nobody likes rats

I have a cat
A lot of people think that bats are birds
That's great!

What's the output of this statement:

grep -oE '[hcbr]at' file04.txt | tr -d '\n'

Ans: ratcathatbathat

Q03) What's the command that will print all the lines that start with 'Thi'
AND end with 'line'; from the file 'file01.txt

Ans: grep -E '^Thi, $\n' file01.txt

Q04) What's the 'grep' command that will print the lines that contain any 5-
letter substring that starts with the two letters 'Ki' and end with the letter 'e'
from the file file04.txt (use the option for the extended regular
expressions)

Ans: grep -E 'Ki…e' file04.txt

Q05) What's the command that will print all the lines that start with 'Thi'
OR end with 'line'; from the file 'file01.txt'

Ans: grep -E '^Thi l \n$' file01.txt

Q06) Assume that the content of the file file03.txt is the

following: 27.18,2.0,Female,Yes,Sat,Dinner,2

What's the output of this statement:

grep -oE 'e….' file03.txt

Ans: emale

Q07) Assume that the content of the file 'file02.txt' is the
following: Lunch
Line
Day
Dinner
Laugh

What's the output of this statement:

grep -oE 'L.*n' file02.txt l tr '\n' 'j'

Ans: LunjLinj

Q08) Assume that the content of the file file03.txt is the following:

27. 18 2.0 Female Yes Sat Lunch 2

What's the output of this

statement: grep -oE '\w{3}'

file03.txt | tr -d '\n'

Ans: FemaleYesSatLun

Q09) What's the command that will print all the lines that contain the text 'Th*s'; from the file 'file01.txt'?

Ans: grep -oE 'Th*s' file01.txt

Q10) Assume that the content of the file 'file02.txt' is the following:

27.18 2.0 Female Yes Sat

Lunch 2 What's the output of this

statement:

grep -oE '\w{2,4}' file02.txt | tr '\n' '.'

Ans: 27.18.Fema.le.Yes.Sat.Lunc.

Q11) What's the 'csvstat' command that will show the sum for the columns 'day,sex,size' from the file 'file01.csv'
Ans: csvstat -c day, sex, size file01.csv —sum

Q12) What's the 'csvstat' command that show all the statistics for all the columns from the file 'file01.csv'
Ans: csvstat file01.csv

Q13) What's the 'csvsql' command that will display the number of rows in the file 'file03.csv'

Ans: csvsql —query "SELECT COUNT(*) FROM file03" file03.csv

Q14) What's the single 'sed' command that will display all the lines starting at line number 47; for the file file01.txt

Ans: sed '1,46d' file01.txt

Q15) What's the single 'sed' command that will only display the lines from 7 to 11 for the file file02.txt

Ans: sed -n '7,11p' file02.txt

Q16) What's the 'csvsql' command that will display all the 'number of unique/ distinct' values for the column 'size' from the file 'file01.csv'

Ans: csvsql —query "SELECT COUNT(DISTINCT(size)) FROM file01" file01.csv

Q17) What's the 'csvsql' command that will display all the rows but only the columns 'day' and 'sex' from the file 'file02.csv'

Ans: csvsql —query "SELECT day, sex FROM file02" file02.csv

Q18) Given that our file 'file01.txt' contains the following

text: mmm mm mmmm m

What's the output of the following commands:

a) grep -oE 'm{2,5}' file01.txt | wc -l
    Ans: mmm mm mmmm
    3

b) grep -oE 'm{2,}' file01.txt | wc -l
    Ans: mmm mm mmmm
    3

c) grep -oE 'm{2}' file01.txt | wc -l
    Ans: mm
    1

Q19) What's the 'csvsql' command that will display the maximum value for the column 'bill' from the file 'file02.csv'

Ans: csvsql —query "SELECT MAX(bill) FROM file02" file02.csv

Q20) What's the command that will delete all occurrences of the letters 'i', 'o', and 'a'; from the file 'file01.txt'
Ans: tr -d '[ioa]' < file01.txt

Q21) What's the 'seq' command that will display the following:

12
11
10
09
08

Ans: seq -rw 8 12

Q22) What's the output of the following command: seq 3 | header -a Numbers
Ans: Numbers
    1
    2
    3

Q23) Write the command that will match and print all phone number that have the following format: xxx-xxx-xxxx, where x could be any number; from the file 'file01.txt'
Ans: grep --color -E '[7-9][0-9]{2}-[0-9]{3}-[0-9]{4}' file01.txt

Q24) What's the 'csvsql' command that will display the content of the file 'file01.csv' sorted in an ascending order based on the column 'size'
Ans: csvsql —query "SELECT * FROM file01 ORDER BY size DESC"

Q25) What's the command that will delete all the letters except the letter 'b' from the file 'file02.txt' and saves the result in the file 'file01.txt'.

Ans: tr -d -c 'b' < file02.txt > file01.txt