1. Write a program that repeatly prompts an user for input number unit:

- The number entered is a positive integer.

- Once a valid number is entered, print the list of prime numbers from 0 to entered number.

- If input is anything else, catch with try/except.

- example of output:

Enter a positive integer number: -1

The number must be positive.

Enter a positive integer number: bob

The number must be a positive number.

Enter a positive integer number: 10

The prime numbers from 0 to 10:

2 3 5 7

1. Write a program to read through the file trace.txt, figure out the distribution by name of providers, pull the name out of the ‘Name’ line and then splitting the string.

Name: microsoft-windows-L2nacp -> microsoft

Once you have accoumulated the count for each name, print out the counts sorted by name

Example of output:

Enter file: trace.txt

Troubleshot wired LAN related issues:

Apple: 2

Microsoft: 3

1. Write a program to read through file trace.txt and count the troubles per organizations then save data to the database file Trace.sqlite

Using database with following schema to maintain the counts:

CREATE TABLE providers (pname text, pcount int, pwarning text)

If trouble > 1 => pwarning = ‘High risk’, otherwise pwarning = ‘Normal’

Print all rows of the table when sorted in descending order by pcount

Example of output:

Troubleshot wired LAN related issues:

Provider Count Warning

Microsoft 5 High risk

Apple 3 High risk

Google 2 High risk

IBM 1 Normal