Write Python code for both of the following questions:

1. The Bitcoin rate is available as a public REST API that gives response in json format here: https://api.coindesk.com/v1/bpi/currentprice.json Write a python program that uses this REST API to get the current rate of bitcoin and prints it in words. You can ignore the decimal part.

for example: if the rate is as follows:

"rate":"22,616.3987"

Your Python program should print: Twenty Two Thousand Six Hundred and Sixteen

2. Given a matrix of characters representing a place on Earth, where the value 'T' indicates the presence of a Tree at that location and 'O' represents there is no tree at that point. An orchard is a region with tress connected vertically, horizontally, or diagonally. The size of the orchard is the total number of connected trees. Write a method to compute the sizes of all orchards in the matrix.

 Example input:

[

  ['O','T','O','O'],

  ['O','T','O','T'],

  ['T','T','O','T'],

  ['O','T','O','T']

]

Note: Input can be in the code itself (it doesn't have to be supplied at runtime)

Output: 5, 3

If you are not able to get the exact output, still go ahead and upload the code. But ensure that your code is commented well with the comments explaining the approach.