Assignment 1
SIL765

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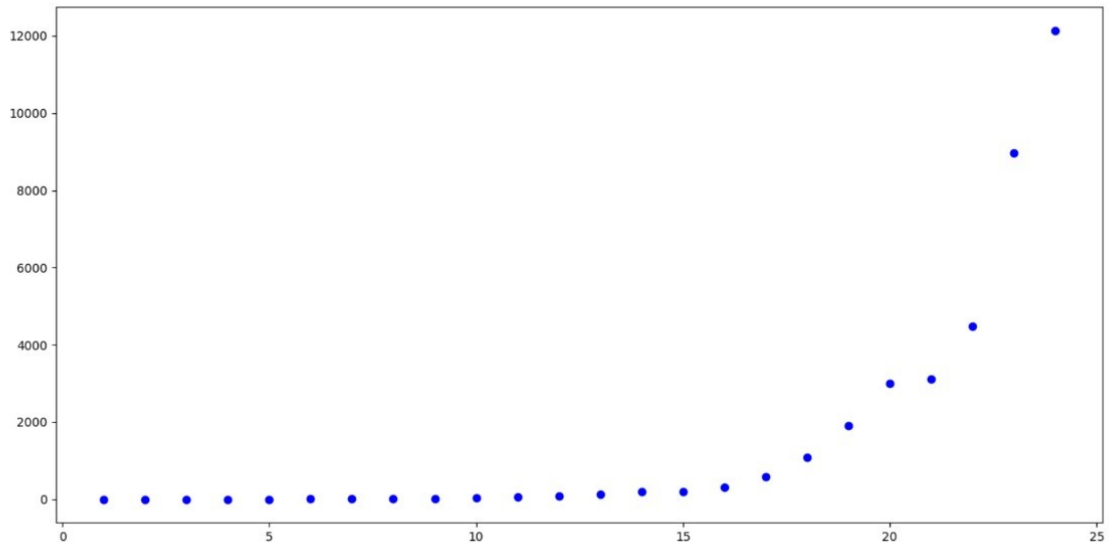
Question 2.

In this question I directly made two random values of the given size and then compared them to check whether their SHA value was same or not. This method is a basic method but surprisingly went well for the 24 bit values also as the avg time checked for over 100 times for a 24 bit value came out to be : **12135.875.** Which is a significantly low value as this can be computed in a very small time.

The graph for the average value of the input vs the number of iterations taken is given as:-



d vs number of iterations

The graph for the memory used is not made as the memory used at each iteration was the same which is constant at 48 bits only,

The value of sha was computed using the inbuilt function in python.

RUNNING COMMANDS:

python3 question_2.py

after this enter the value of d and the value of the tuple is returned