Task 1:

Can Python display up to 100 decimal places??

Write an algorithm to calculate the square root of 2 with 100 decimal places!!

Reference the Babylonian and Indian methods, both ancient methods but quite accurate.

Reference Newtons method of calculating a square root.

<https://en.wikipedia.org/wiki/Newton%27s_method>

Check Wikipedia for computing version of calculating the square root of 2.

Does the square root of 1 present the same problems?

Python can use a module called decimal to show more decimal places than the default 12 shown when using print()

<https://stackoverflow.com/questions/14057835/more-decimal-places-needed-in-python>

The below seems to be the best solution for decimal places, need to test to see if 100 decimal places will display to the screen. From the above stackoverflow page…this is an old solution need to check if this works for python3.

