1.How many seconds are in an hour? Use the interactive interpreter as a calculator and multiply the number of seconds in a minute (60) by the number of minutes in an hour (also 60).

sol. 60

ans. a = 60\*60

2. Assign the result from the previous task (seconds in an hour) to a variable called seconds\_per\_hour.

Ans. seconds\_per\_hour= 60\*60

3. How many seconds do you think there are in a day? Make use of the variables seconds per hour and minutes per hour.

Ans. seconds\_per\_hour\*24

4. Calculate seconds per day again, but this time save the result in a variable called seconds\_per\_day

seconds\_per\_day = seconds\_per\_hour\*24

5. Divide seconds\_per\_day by seconds\_per\_hour. Use floating-point (/) division.

Ans. seconds\_per\_day/seconds\_per\_hour

6. Divide seconds\_per\_day by seconds\_per\_hour, using integer (//) division. Did this number agree with the floating-point value from the previous question, aside from the final .0?

Ans. seconds\_per\_day//seconds\_per\_hour

Its an int now

7. Write a generator, genPrimes, that returns the sequence of prime numbers on successive calls to its next() method: 2, 3, 5, 7, 11, ...

def prime(num):

for i in range(2,num):

for j in range(2,i):

if i%j == 0:

break

else:

yield i

a = prime(100)

print(list(a))