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 def seconds\_per\_hour(n):

   mul=n\*60\*60

   return mul

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

seconds\_per\_hour1= second\_per\_hour(n)

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

hours\_per\_day=24

seconds\_per\_hour(hours\_per\_day)

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.

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?

Seconds\_per\_day//seconds\_per\_hour

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

for i in range(1,5):

c=0

for j in range(1,i+1):

if i%j==0:

c+=1

print(c)