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\*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

seconds\_per\_hour

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 One day =24

Second\_in\_a\_day =24\*second\_per\_hour

Second\_in\_day

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

Ans second\_per\_day = 24\* second\_per\_hour

Second\_per\_day

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

Ans second\_per\_day/second\_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 second\_per\_day // second\_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, ...

Ans def genprime():

N=2

Prime =[]

While True:

For p in prime :

If n% p == 0:

Break

Else:

primes.append(n)

yield n

n += 1