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)

Ans : I/P 60\*60

O/P 3600

2)Assign the result from the previous task. To a variable called seconds\_per\_hour .

Ans : seconds\_per\_hour = 3600.

3)how many seconds do you think there are in a day ?make use of the variable seconds per hour and minutes per hour.

Ans : I/P seconds\_per\_hour\*24

O/P 86400.

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

Ans : I/P seconds\_per\_day = seconds\_per\_hour\*24

seconds\_per\_day

O/P 86400.

5)divide seconds\_per\_day by seconds\_per\_hour.use floating-point(/)division .

Ans : I/P seconds\_per\_day / seconds\_per\_hour

O/P 24.0

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 :I/P seconds\_per\_day // seconds\_per\_hour

O/P 24

7)write a generators,genprimes that returns the sequence of prime numbers on successive calls to its next{}method 2,3,5,7,11,...

Ans : def genPrimes():

primes = [ 2, 3, 5, 7, 11 ]

def isPrimeNumber(n):

if n in primes:

return True

for elem in primes:

if n % elem == 0:

return False

primes.append(n)

return True

num = 1

while True:

num += 1

if isPrimeNumber(num):

next = num

yield next

num = next

primeNumber = genPrimes()

for i in range(189):

print(primeNumber.\_\_next\_\_

O/P 2

3

5

7

11

13

17

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71…………….