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.

timem = 60

timeh = 60

print(timem\*timeh)

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

Sol. seconds\_per\_hour = timem\*timeh

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

Sol. seconds\_per\_hour = 50

minutes\_per\_hour = 90

print(seconds\_per\_hour , minutes\_per\_hour )

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

Ans. seconds\_per\_day = seconds\_pre\_hour + minutes\_per\_hour

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

Ans. a = 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.b = 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, ...

Ans.

for x in range(1,101):

for y in range(2,x):

if x%y==0:break

else:

print (x,sep=' ', end=' ')