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
Answer : 3600
2. Assign the result from the previous task (seconds in an hour) to a variable called seconds_per_hour.
Answer: sec_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.
Answer: sec_per_hour*24
86400
4. Calculate seconds per day again, but this time save the result in a variable called seconds_per_day
Answer: sec_per_day=sec_per_hour*24
5. Divide seconds_per_day by seconds_per_hour. Use floating-point (/) division.
Answer: sec_per_day/sec_per_hour
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?
Answer: sec_per_day//sec_per_hour
24. Yes the result is the same, except data type is integer
7. Write a generator, genPrimes, that returns the sequence of prime numbers on successive calls to its next() method: 2, 3, 5, 7, 11,
Answer:

```
def genPrimes():
    primes=[]
    num = 2
    while True:
        for p in primes:
            if num % p == 0:
                primes.append(num)
            else:
                 num += 1
                 yield num

p = genPrimes()
```