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).

Answer :

```
In [1]:  1  60*60
Out[1]: 3600
```

2. Assign the result from the previous task (seconds in an hour) to a variable called seconds_per_hour.jjjj

Answer :

```
In [2]:  1  seconds_per_hour=60*60
In [3]:  1  seconds_per_hour
Out[3]: 3600
```

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 :

```
In [4]:  1  seconds_per_hour*24
Out[4]: 86400
```

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

Answer :

```
In [5]: 1 seconds_per_day= seconds_per_hour*24

In [6]: 1 seconds_per_day
Out[6]: 86400
```

5. Divide seconds_per_day by seconds_per_hour. Use floating-point (/) division.

Answer :

```
In [7]: 1 seconds_per_day / seconds_per_hour
Out[7]: 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 :

```
In [8]: 1 seconds_per_day // seconds_per_hour
Out[8]: 24
```

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 :

In [9]:
```
def genPrimes():
    prime=[]
    num=1
    while (1):
        num+=1
        for i in prime:
            if num%i==0:
                break
        else:
            prime.append(num)
            yield num
```

In [10]:
```
genPrime=iter(genPrimes())
```

In [11]:
```
next(genPrime)
```

Out[11]: 2