PYTHON ASSIGNMENT 15

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).

```
In [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.

```
In [2]: seconds_per_hour = 60*60
        seconds_per_hour

Out[2]: 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.

```
In [6]: one_day = 24
        one_day * seconds_per_hour

Out[6]: 86400
```

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

```
In [7]: seconds_per_day = one_day * seconds_per_hour
        seconds_per_day

Out[7]: 86400
```

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

```
In [9]: seconds_per_day / seconds_per_hour

Out[9]: 24.0
```

```
In [ ]:   6. Divide seconds_per_day by seconds_per_hour, using integer (//) division. Did t
          with the floating-point value from the previous question, aside from the final .0
```

```
In [10]:  seconds_per_day // seconds_per_hour
```

Out[10]: 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, ...

```
In [14]:  def genPrimes():
              n = 2
              primes = []
              while True:
                  for p in primes:
                      if n % p == 0:
                          break
                  else:
                      primes.append(n)
                      yield n
                  n += 1
```

```
In [ ]:
```