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).

sol. 60

**Ans: 60\*60 = 3600s in hour.**

2. Assign the result from the previous task (seconds in an hour) 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 variables seconds per hour and minutes per hour.

Ans: **: seconds\_per\_hour \* 24**

**86400**

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

Ans: seconds\_per\_day = seconds\_per\_hour \*24

**86400**

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

**Ans: seconds\_per\_day / seconds\_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?

**Ans: seconds\_per\_day // seconds\_per\_hour**

**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, ...

**Ans: years\_list[-1]**

**2005**