**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

- seconds\_per\_minute = 60

minutes\_per\_hour = 60

seconds\_per\_hour = seconds\_per\_minute \* minutes\_per\_hour

print("1. Seconds in an hour:", seconds\_per\_hour)

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

- seconds\_per\_hour = seconds\_per\_minute \* minutes\_per\_hour

print("2. Seconds per hour:", seconds\_per\_hour)

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

**-** hours\_per\_day = 24

seconds\_per\_day = seconds\_per\_hour \* hours\_per\_day

print("3. Seconds in a day:", seconds\_per\_day)

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

**-** seconds\_per\_day = seconds\_per\_hour \* hours\_per\_day

print("4. Seconds in a day (revised):", seconds\_per\_day)

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

**-** seconds\_per\_hour\_float = float(seconds\_per\_hour) # Convert to float to get a floating-point result

seconds\_per\_day\_float = seconds\_per\_day / seconds\_per\_hour\_float

print("5. Floating-point division of seconds\_per\_day by seconds\_per\_hour:", seconds\_per\_day\_float)

**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?**

- seconds\_per\_day\_int = seconds\_per\_day // seconds\_per\_hour

print("6. Integer division of seconds\_per\_day by seconds\_per\_hour:", seconds\_per\_day\_int)