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## Assignment1

Before doing this assignment, you should already know the following things:

- Define and use variables in C++
- Simple operator in C++ (+, -, \*, /, %)
- · How the computer stores signed integers
- · Define, initialize and use struct

## **Review Questions**

(You should write the answers to the following questions in the same file)

1. Please write down the upper and lower bound of the following types:

```
    For example: uint16_t: 0~65535
    uint8_t
    int16_t
    (Please read this page if you do not know uint8_t and int8_t)
```

- 2. What is the difference between the following values (What is their default type in C++) 2022 2022L 2022.0 2022.0f
- 3. Define a structure, which includes year, month, day and time information. Then define a variable of this structure and initialize it.

## **Programing Exercise**

We have provided the skeleton code (exer1\_1.cpp and exer1\_2.cpp), you only need to complete the calculation part. For compiling and running the code, using the following commend lines:

```
# compile
g++ -0 exer_run1_1 exer1_1.cpp
g++ -0 exer_run1_2 exer1_2.cpp
# run
./exer_run1_1
./exer_run1_2
```

If you want to know more about compiling with g++, click here

1. Write a program that asks the user to enter the number of **seconds** as an **integer value (use type long)** and that then displays the equivalent time in **days, hours, minutes, and seconds**. The output should look like this: Enter the number of seconds: 31600000 31600000 seconds = 365 days, 17 hours, 46 minutes, 40 seconds

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2. Write a program that asks the user to enter the number of hours as an float value (use type float) and that then displays the equivalent time in hours, minutes, and seconds (Ignore the fractional part of second). The output should look like this: Enter the number of hours: 7.244 7.244 hours = 7 hours, 14 minutes, 38 seconds

## DO NOT FORGET TO COMMIT AND PUSH YOU CODE 😃

