# **Introduction to Programming (2)**

C++ Basics - 1

#### **Practice Class**

- Upload the report paper in e-class
  - The report paper has to include 1) the source code, 2) the snapshot, and 3) the description of the program
  - File name is date\_studentid (ex: 20220915\_22xxxxx.docx)

- Get two numbers and print the sum of two numbers
- Sample output

```
属 C:₩Windows₩system32₩cmd.exe
Input two numbers (seperated by space)
10
20
The sum of 10 and 20 is 30
계속하려면 아무 키나 누르십시오 . . .
```

- Find size of fundamental data types.
- Sample output

```
ፙ 선택 C:₩Windows₩system32₩cmd.exe
Find Size of fundamental data types:
 The sizeof(char) is:
                                  1 bytes
The sizeof(short) is:
                                  2 bytes
The sizeof(int) is:
                                  4 bytes
The sizeof(long) is:
The sizeof(long long) is:
                                  4 bytes
                                  8 bytes
The sizeof(float) is:
                                  4 bytes
The sizeof(double) is:
The sizeof(long double) is:
                                  8 bytes
                                  8 bytes
The sizeof(bool) is:
                                  1 bytes
계속하려면 아무 키나 누르십시오 . . . 💂
```

- Print the factorial of 10 (10!)
  - Problem #3-1 : use for loop
  - Problem #3-2 : use while loop

```
■ C:#Windows#system32#cmd.exe — X
Factorial of 10: 3628800
계속하려면 아무 키나 누르십시오 . . .
```

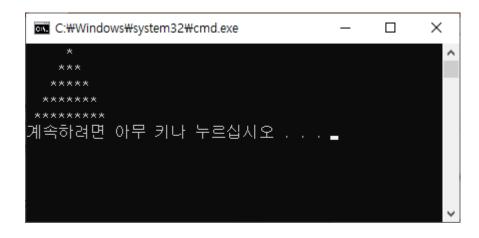
- Get the age of A and B, then determine the older one
- Sample output

```
로 C:₩Windows₩system32₩cmd.exe
Input an age of A: 21
Input an age of B: 20
A is order than B
계속하려면 아무 키나 누르십시오 . . . ■
```

```
로 C:₩Windows₩system32₩cmd.exe — □ X
Input an age of A: 20
Input an age of B: 20
A and B are the same age
계속하려면 아무 키나 누르십시오 . . . ■
```

```
로 C:₩Windows₩system32₩cmd.exe — □ ×
Input an age of A: 20
Input an age of B: 21
B is order than A
계속하려면 아무 키나 누르십시오 . . .
```

- Draw following patterns by using while loop
- Problem #5-1



#### Problem #5-2

