Lab 09/13

1. Please type the following source code (including all comments) in Dev C++, and make sure the output is the same as the input/output example.

```
/**********************
 * 2022.09.13 ICP Course01 *
 * My first I/O program
 **********
// include header file of IO functions
#include<stdio.h>
int main() // enter the program from main function
{ //opening brace
   // information of course
   printf("This is NYCU EED TsaiMa's course:\n"); // print message
   printf("Introduction to Computer and Programming.\n"); // print message
   printf("\n"); // newline
   int id; // allocation of integer variable
   printf("Please enter your NYCU student ID: "); // prompt message
   scanf("%d", &id); // enter your student ia
   printf("\n"); // newline
   //print personal information
   printf("My id is %d, please give me an Apple Watch Ultra:::", id);
   return 0;
   //closing brace
```

Input/Output Example:

```
This is NYCU EED TsaiMa's course:
Introduction to Computer and Programming.
Please enter your NYCU student ID: 111123123
My id is 111123123, please give me an Apple Watch Ultra!!!
------
Process exited after 10.34 seconds with return value 0
請按任意鍵繼續 . . .
```

- 2. Please let user input an integer, a floating number, and a double number.
 - 1) Print out the address of these numbers using %u, %x, and %p.
 - 2) Print out the content of these numbers. In addition, please print out the hexadecimal presentation of the integer.
 - 3) Please follow the format of the input/output example.

Input/Output Example:

```
Please input an integer number x: 987987
Please input a floating number y: 5.43838
Please input a double number z: 2.578788

addr of x => 6684188 (65felc, 0000000000065FE1C)
addr of y => 6684184 (65fel8, 000000000065FE18)
addr of z => 6684176 (65fel0, 0000000000065FE10)

content of x => 987987 (HEX: 0000000000F1353)
content of y => 5.438380
content of z => 2.578788

Process exited after 41.2 seconds with return value 0
請按任意鍵繼續 . . .
```

3. Please use "grade.exe" to check your results of problem 1 and 2 as follows:

```
8467-5786-5985

1. PASS: 1 / 1

2. PASS: 1 / 1

Passed original output:

1:

This is NYCU EED TsaiMa's course:
Introduction to Computer and Programming.

Please enter your NYCU student ID:
My id is 111123123, please give me an Apple Watch Ultra!!!

2:
Please input an integer number x: Please input a floating number y: Please input a double number z: addr of x => 6684188 (65felc, 0000000000065FElC) addr of y => 6684184 (65fel8, 0000000000065FEl8) addr of z => 6684176 (65fel0, 0000000000065FEl0)

content of x => 987987 (HEX: 000000000000F1353) content of y => 5.438380 content of z => 2.578788

Press any key to continue...
```