기초 컴퓨터 프로그래밍

3 주차 과제(20216793 김준섭)

Exercise 1

```c
#include <stdio.h>
int main(void) {
    int n1 = 7, n2 = 5;
    n1 += n2; //n1 = n1 + n2;
    printf("n1 += n2 : % d\n", n1);
    n2 += 12; //n2 + 12;
    printf("n2 += 12 : % d\n", n2);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
n1 += n2 :  12
n2 += 12 :  17
```

Exercise 2

```c
#include <stdio.h>
int main(void) {
    int num1 = 7;
    int num2, num3;
    num2 = ++num1;
    num3 = --num1;
    printf("num1 : % d\n", num1);
    printf("num2 : % d\n", num2);
    printf("num3 : % d\n", num3);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
num1 :  7
num2 :  8
num3 :  7
```

Exercise 3

```c
#include <stdio.h>
int main(void) {
    int num1 = 7;
    int num2, num3;
    num2 = num1++;
    num3 = num1--;
    printf("num1 : % d\n", num1);
    printf("num2 : % d\n", num2);
    printf("num3 : % d\n", num3);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
num1 :  7
num2 :  7
num3 :  8
```

Exercise 4

```c
#include <stdio.h>
int main() {
    int num1, num2;
    num1 = 7;
    num2 = (num1--) + 5;
    printf("num1 : % d\n", num1);
    printf("num2 : % d\n", num2);
}
```

Microsoft Visual Studio Debug Console

```
num1 :   6
num2 :   12
```

Exercise 5

```c
#include <stdio.h>
int main() {
    int x = 3;
    int y = 2;
    printf("%d\n", (x > y) ? x : y);
    printf("%d\n", (x < y) ? x : y);
}
```

Microsoft Visual Studio Debug Console

```
3
2
```

Exercise 6

```c
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
int main() {
    int x, y, result;
    printf("enter two integers(x y): ");
    scanf("%d %d", &x, &y);
    result = x + y;
    printf("%d + %d = %d\n", x, y, result);
    result = x - y;
    printf("%d - %d = %d\n", x, y, result);
    result = x * y;
    printf("%d - %d = %d\n", x, y, result);
    result = x / y;
    printf("%d - %d = %d\n", x, y, result);
    result = x % y;
    printf("%d - %d = %d\n", x, y, result);
    return 0;
}
```

Microsoft Visual Studio Debug Console

```
enter two integers(x y): 1 2
1 + 2 = 3
1 - 2 = -1
1 - 2 = 2
1 - 2 = 0
1 - 2 = 1
```

Exercise 7

```c
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
int main() {
    int a = 1;
    int b = 0;
    if (a || (b = 5)) {
        printf("b is %d\n", b);
    }
    if (a && (b = 5)) {
        printf("b is %d\n", b);
    }
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
b is 0
b is 5
```

Exercise 8

```c
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
int main() {
    int a, b, c;
    scanf("%d %d", &a, &b);

    c = (a > b) ? a : b;
    printf("bigger one is %d\n", c);

    scanf("%d %d", &a, &b);

    c = (a > b) ? a : b;
    printf("bigger one is %d\n", c);

    return 0;
}
```

```
Microsoft Visual Studio Debug Console
1 10
bigger one is 10
10 1
bigger one is 10
```

Exercise 9

```
1    #define _CRT_SECURE_NO_WARNINGS
2    #include <stdio.h>
3    int main() {
4        int a, b;
5        scanf("%d %d", &a, &b);
6
7        printf("%s\n", (a>b)?"a is bigger than b":"b is bigger than a");
8        scanf("%d %d", &a, &b);
9
10       printf("%s\n", (a > b) ? "a is bigger than b" : "b is bigger than a");
11
12       return 0;
13   }
```

Microsoft Visual Studio Debug Console

```
1 3
b is bigger than a
3 1
a is bigger than b
```

Exercise 10

```
1    #define _CRT_SECURE_NO_WARNINGS
2    #include <stdio.h>
3    int main()
4    {
5        char a = 7;
6        printf("a XOR a is % d\n", a ^ a);
7        printf("a XOR a XOR a is % d\n", a ^ a ^ a);
8        return 0;
9    }
```

Microsoft Visual Studio Debug Console

```
a XOR a is  0
a XOR a XOR a is  7
```