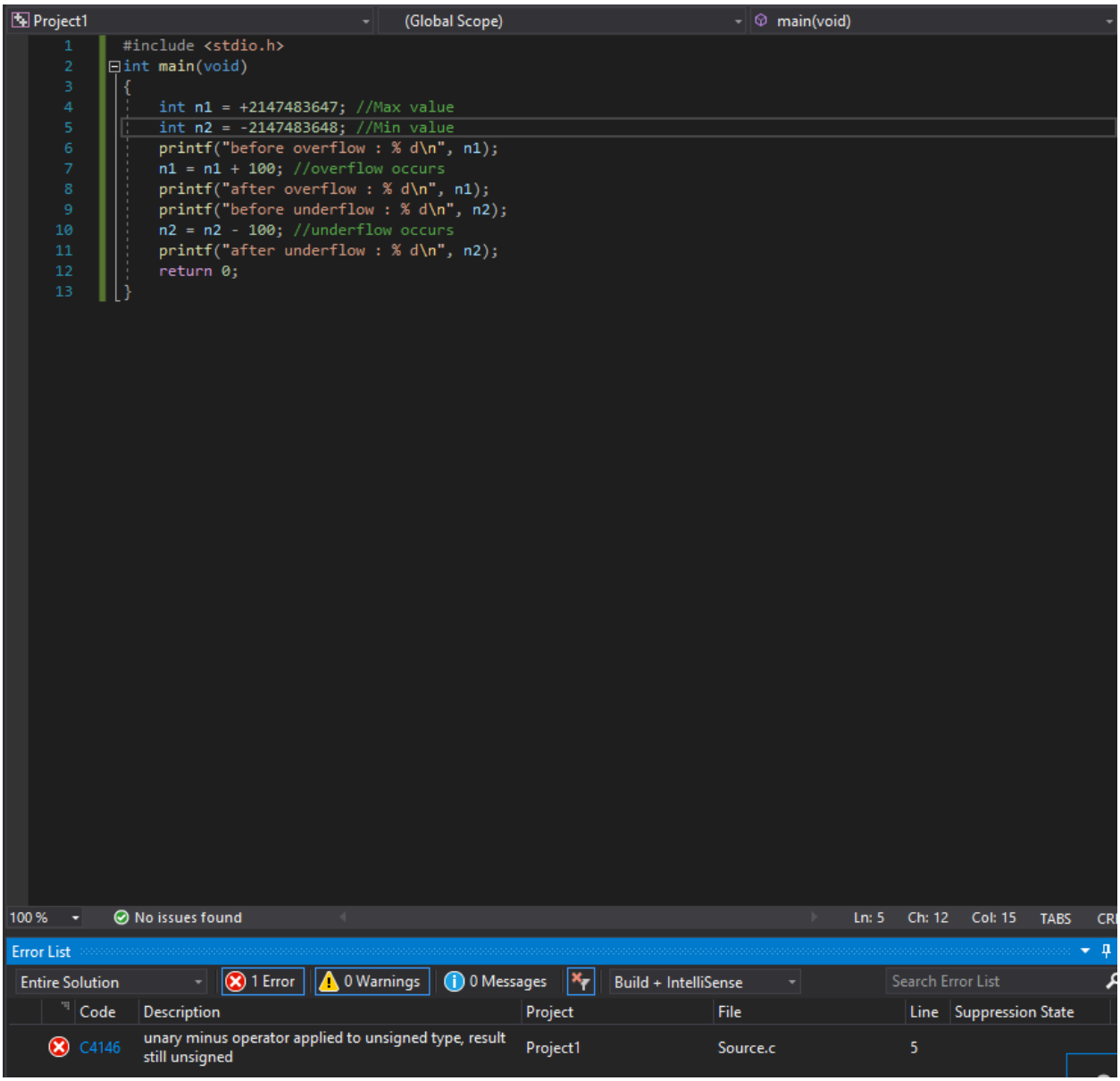
기초 컴퓨터 프로그래밍

2 주차 과제(20216793 김준섭)

Exercise 1



Exercise 2

```c
#include <stdio.h>
int main(void)
{
    char code1 = 'B';
    char code2 = 66;
    char code3 = 'C';
    char code4 = 67;
    char code5 = 'D';
    char code6 = 68;
    printf("code1 = % c\n", code1);
    printf("code2 = % c\n", code2);
    printf("code3 = % c\n", code3);
    printf("code4 = % c\n", code4);
    printf("code5 = % c\n", code5);
    printf("code6 = % c\n", code6);
}
```

```
Microsoft Visual Studio Debug Console
code1 = B
code2 = B
code3 = C
code4 = C
code5 = D
code6 = D

C:\Users\david\source\repos\Project1\Debug\Project1.exe (process 173964) exited with code 0.
Press any key to close this window . . .
```

Exercise 3

```c
#include <stdio.h>
int main()
{
    char code = 'A';
    printf("%d %d %d \n", code, code + 1, code + 2);
    printf("%c %c %c \n", code, code + 1, code + 2);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
65 66 67
A B C

C:\Users\david\source\repos\Project1\Debug\Project1.exe (process 203592) exited with code 0.
Press any key to close this window . . .
```

Exercise 4

```c
#include <stdio.h>
int main()
{
    printf("char: %d %d\n", sizeof(char), sizeof(unsigned char));
    printf("short: %d %d\n", sizeof(short), sizeof(unsigned short));
    printf("int: %d %d\n", sizeof(int), sizeof(200));
    printf("long: %d %d\n", sizeof(long), sizeof(300L));
    printf("long long: %d %d\n", sizeof(long long), sizeof(900LL));
    printf("float: %d %d\n", sizeof(float), sizeof(3.14F));
    printf("double: %d %d\n", sizeof(float), sizeof(3.14));
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
char: 1 1
short: 2 2
int: 4 4
long: 4 4
long long: 8 8
float: 4 4
double: 4 8
```

Exercise 5

```c
#include <stdio.h>
int global_variable = 55;
int main()
{
    int local_variable = 44;
    printf("global_variable is %d \n", global_variable);
    printf("local_variable is %d \n", local_variable);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
global_variable is 55
local_variable is 44
```

Exercise 6

```c
#include <stdio.h>
int global_variable = 55;
int main()
{
    int local_variable = 44;
    global_variable = 44;
    local_variable = 55;
    printf("global_variable is %d \n", global_variable);
    printf("local_variable is %d \n", local_variable);
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
global_variable is 44
local_variable is 55
```

Exercise 7

```c
#include <stdio.h>
void test();
int m = 22, n = 44;

int main() {
    m = 1;
    n = 2;
    printf("m=%d, n=%d\n", m, n);
    test();
    return 0;
}

void test() {
    m = 5;
    n = 6;
    printf("m=%d, n=%d", m, n);
}
```

```
Microsoft Visual Studio Debug Console
m=1, n=2
m=5, n=6
```

Exercise 8

```c
#include <stdio.h>
#define N 30000
int main() {
    double zero = 0;
    printf("3000/0 = %f\n", N / zero);

    return 0;
}
```

```
Microsoft Visual Studio Debug Console
3000/0 = inf
```

Exercise 9

```c
#include <stdio.h>
int main() {
    printf("\"Hello\"\n");
    printf("\'Halo\'\n");
    printf("\\\\NICE\\\\");
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
"Hello"
'Halo'
\\NICE\\
```

Exercise 10

```c
#include <stdio.h>
int main() {
    short a = 4;
    int b = 15;
    printf("a+b=%d, size is %d\n", a + b, sizeof(a + b));
    return 0;
}
```

```
Microsoft Visual Studio Debug Console
a+b=19, size is 4
```