Operators in C

Lecture 2 Assignments

1.

```
1      #include <stdio.h>                 //enter stdio.h directive
2      int main (void){                   //enter main function
3          int num_input,reverse1,reverse2;    //declare variables as integers
4
5          printf("Please enter a 2-digit number:");   //print statement for the user input
6          scanf("%d",&num_input);              //using scanf to take a 2 digit number from the user
7
8          reverse1= num_input % 10;            //taking the remainder by 10 to get the first digit of the reversed number
9          reverse2= (num_input / 10) % 10;     //dividing the input by 10 and then taking the remainder by 10
10
11         printf("Reverse: %d%d",reverse1,reverse2);   //printing the reversed number
12
13         return 0;
14         }
15
```
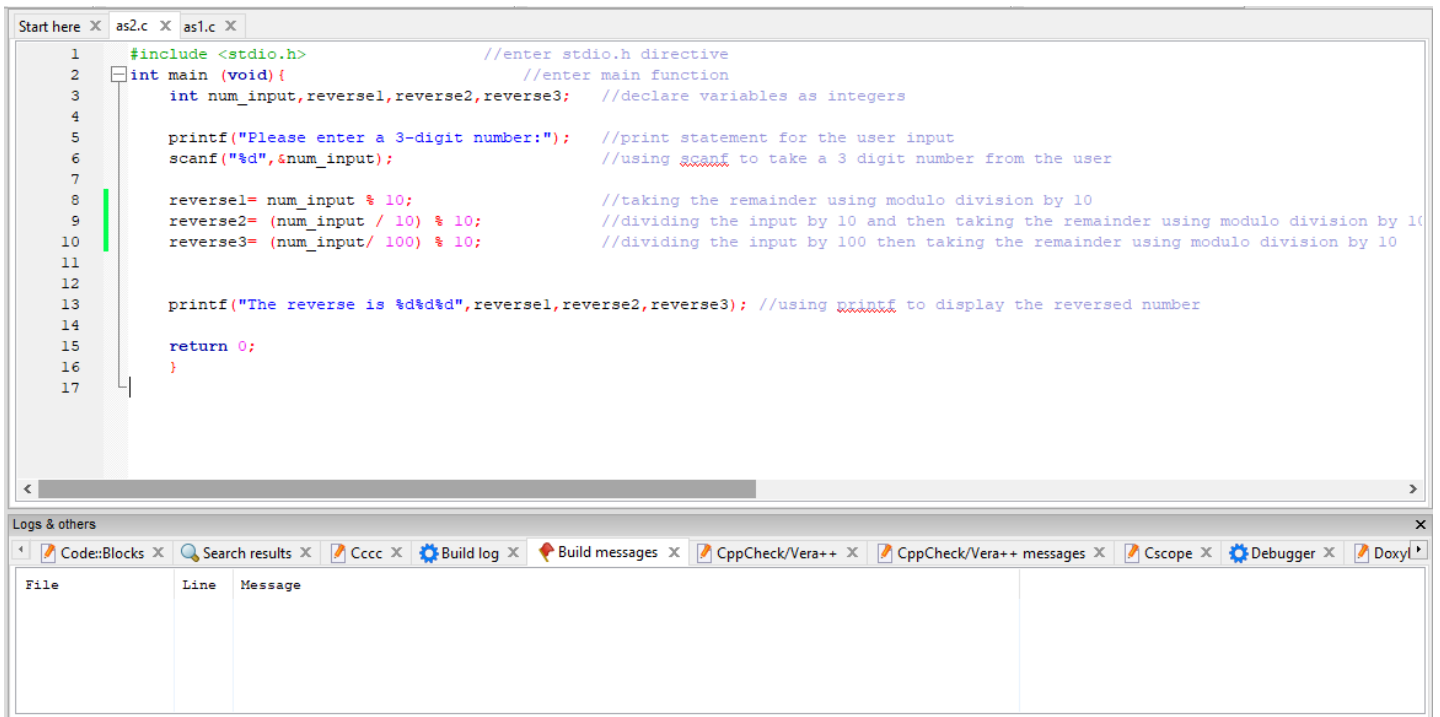
Logs & others

File	Line	Message

```
"C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\as1.exe"

Please enter a 2-digit number:52
The reverse is 25
Process returned 0 (0x0)    execution time : 3.375 s
Press any key to continue.
```
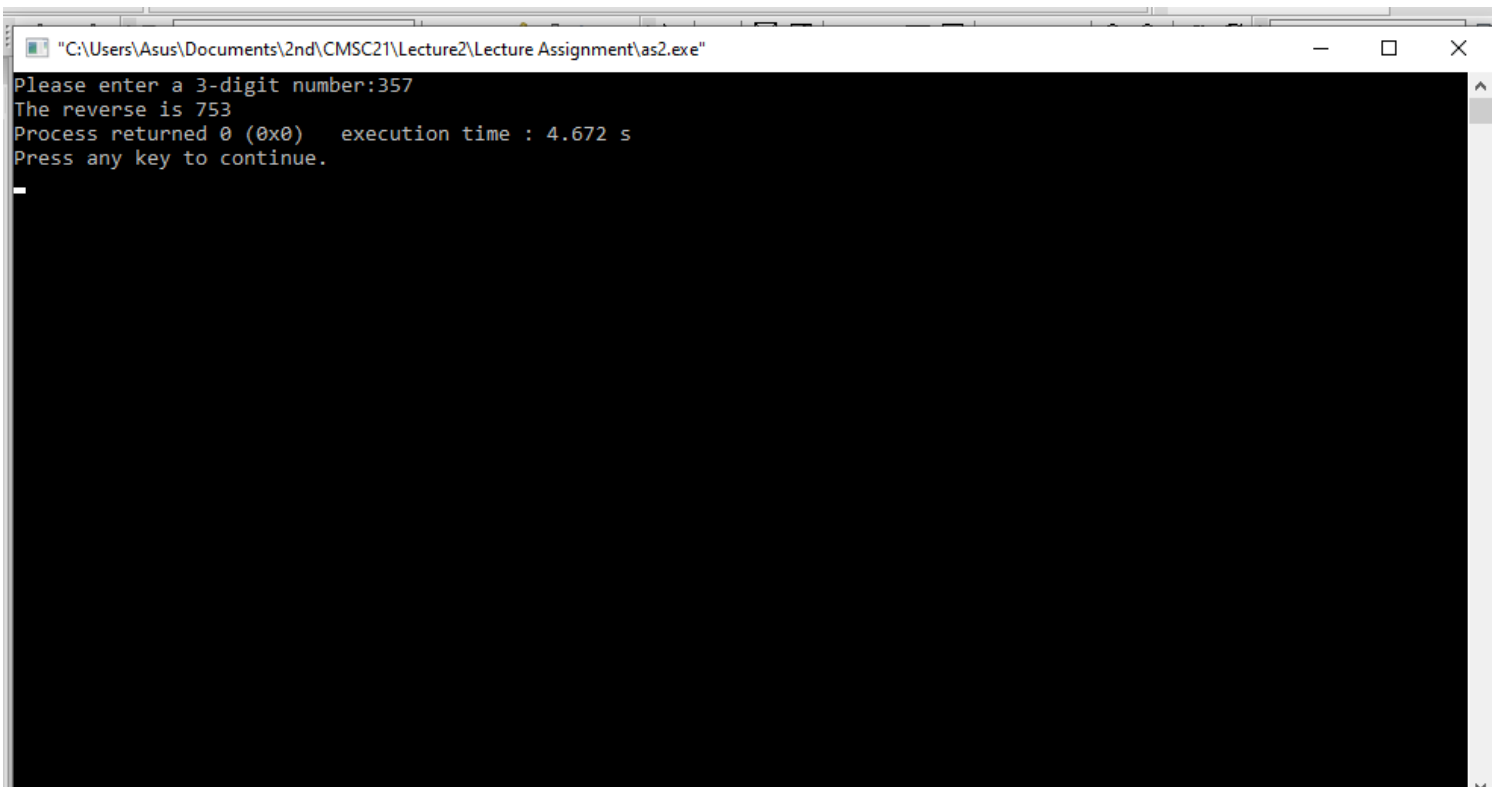
2.

```c
#include <stdio.h>                    //enter stdio.h directive
int main (void){                      //enter main function
    int num_input,reverse1,reverse2,reverse3;    //declare variables as integers

    printf("Please enter a 3-digit number:");    //print statement for the user input
    scanf("%d",&num_input);                       //using scanf to take a 3 digit number from the user

    reverse1= num_input % 10;                     //taking the remainder using modulo division by 10
    reverse2= (num_input / 10) % 10;              //dividing the input by 10 and then taking the remainder using modulo division by 1(
    reverse3= (num_input/ 100) % 10;              //dividing the input by 100 then taking the remainder using modulo division by 10


    printf("The reverse is %d%d%d",reverse1,reverse2,reverse3); //using printf to display the reversed number

    return 0;
    }
```

Logs & others

File	Line	Message

```
"C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\as2.exe"

Please enter a 3-digit number:357
The reverse is 753
Process returned 0 (0x0)    execution time : 4.672 s
Press any key to continue.
```
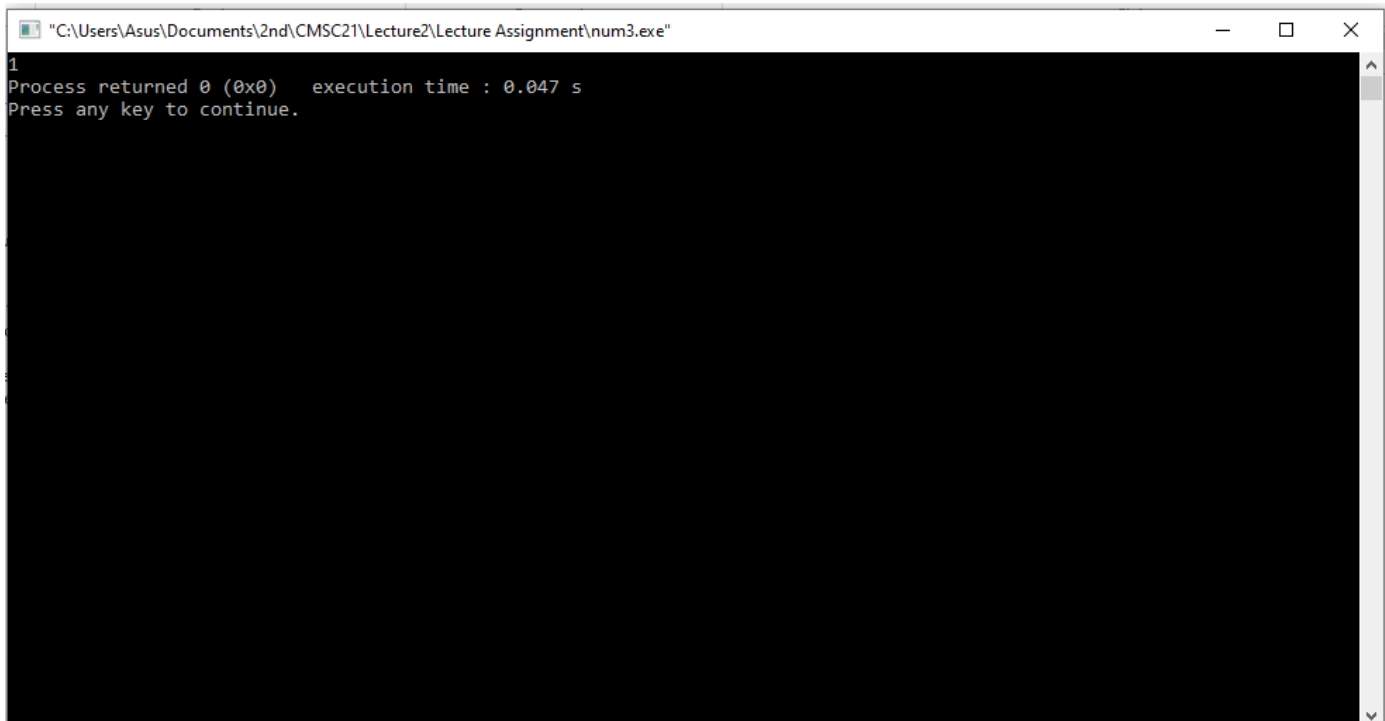
3.

a. **Output= 1**

```c
1    #include <stdio.h>
2    int main (void) {
3        int i,j,k;
4
5        i = 3; j = 4; k = 5;
6
7        printf("%d", i < j || ++j < k);
8
9        }
10
```
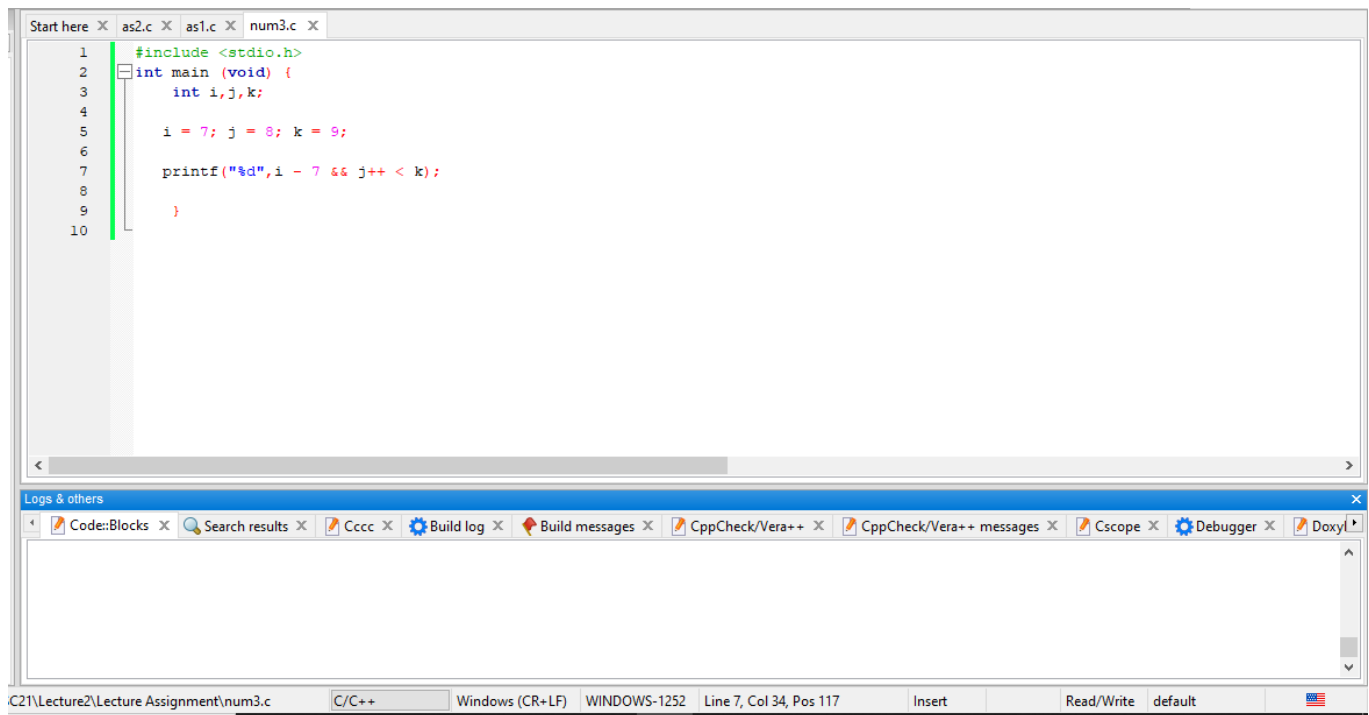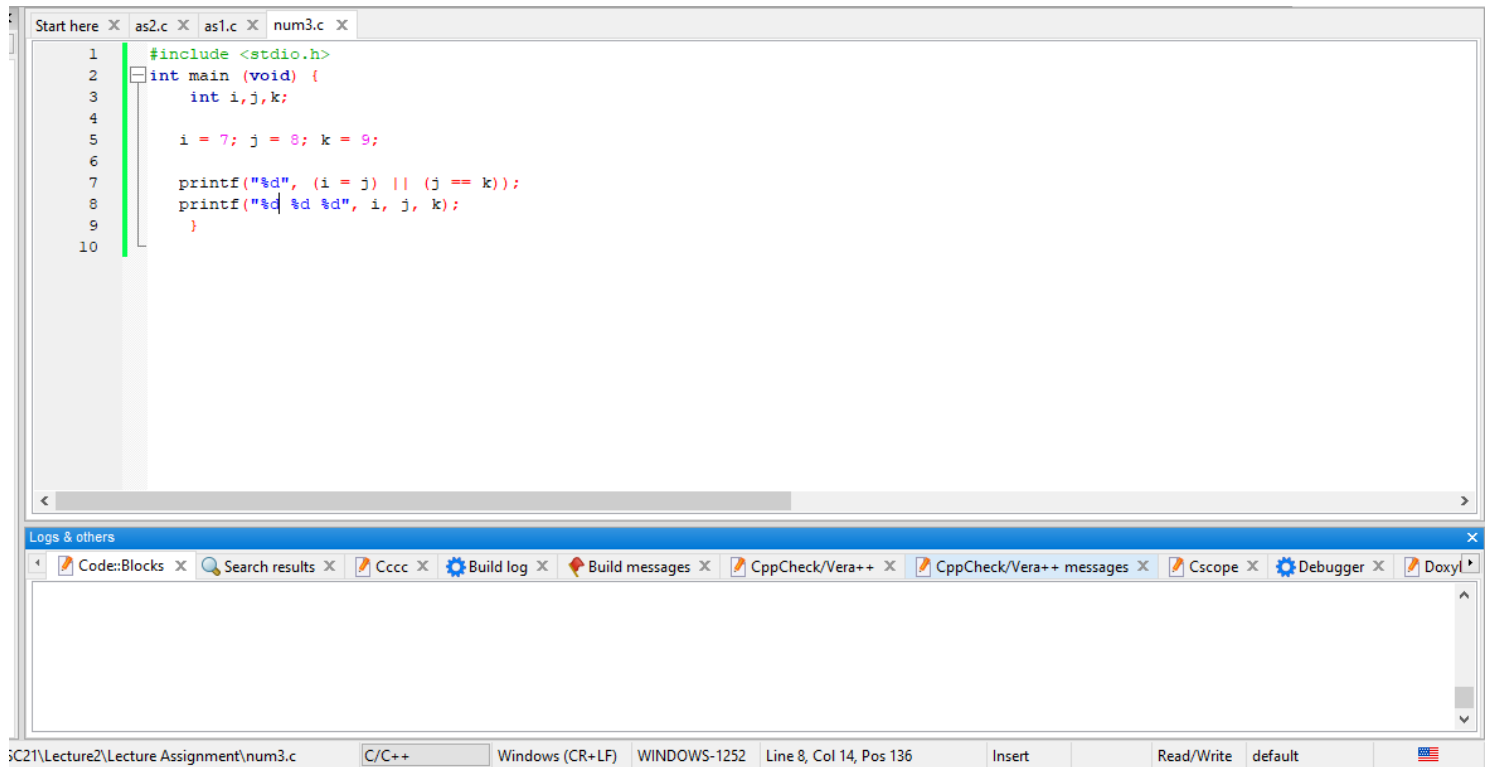
Logs & others

Code::Blocks × | Search results × | Cccc × | Build log × | Build messages × | CppCheck/Vera++ × | CppCheck/Vera++ messages × | Cscope × | Debugger × | Doxy

File	Line	Message
		=== Build file: "no target" in "no project" (compiler: unknown) ===
		=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 5 second(s)) ===

"C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\num3.exe"

```
1
Process returned 0 (0x0)    execution time : 0.047 s
Press any key to continue.
```

b. **Output=** 0
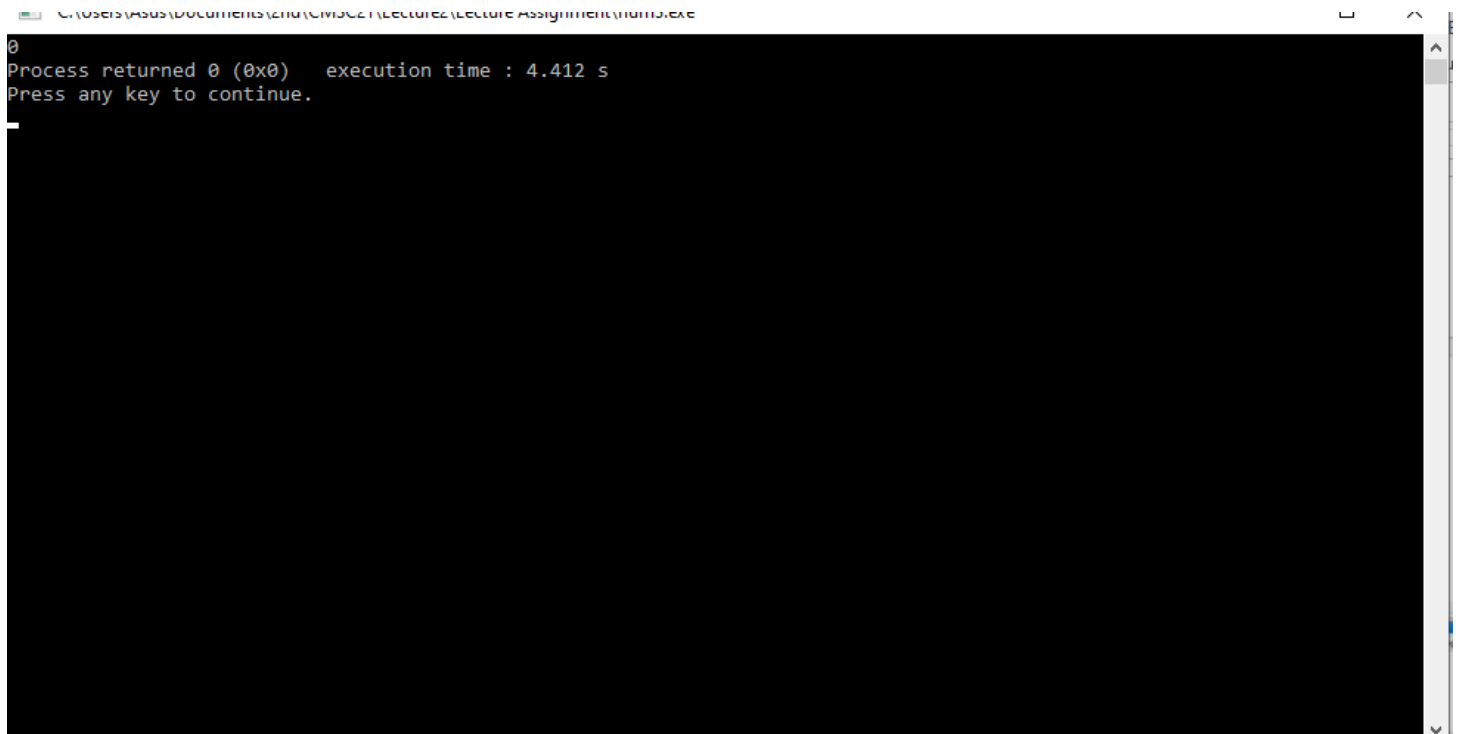
```c
1    #include <stdio.h>
2    int main (void) {
3        int i,j,k;
4
5        i = 7; j = 8; k = 9;
6
7        printf("%d",i - 7 && j++ < k);
8
9        }
10
```

```
C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\num3.exe

0
Process returned 0 (0x0)    execution time : 4.412 s
Press any key to continue.
```
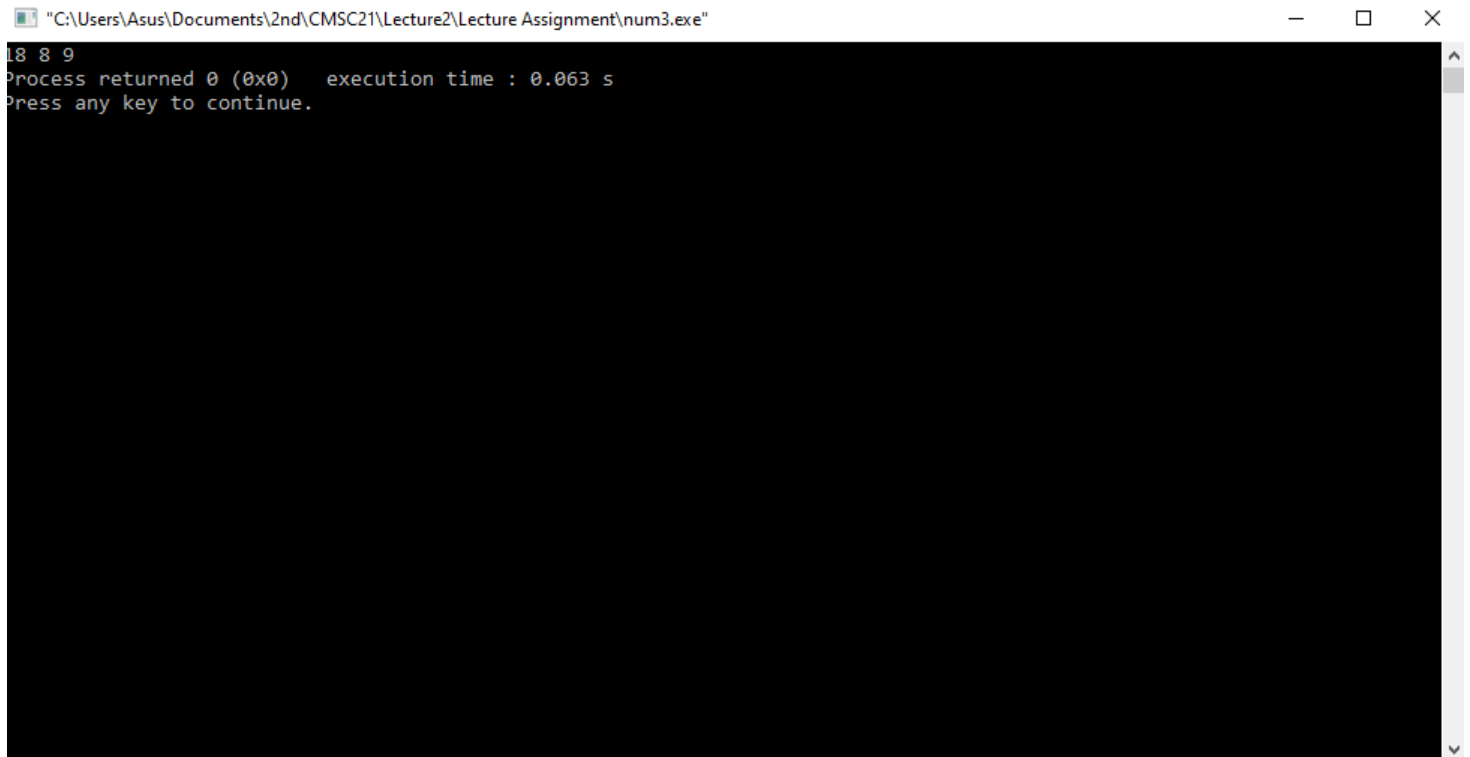
c. **Output=** 18 8 9

```c
#include <stdio.h>
int main (void) {
    int i,j,k;

    i = 7; j = 8; k = 9;

    printf("%d", (i = j) || (j == k));
    printf("%d %d %d", i, j, k);
}
```

"C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\num3.exe"

```
18 8 9
Process returned 0 (0x0)   execution time : 0.063 s
Press any key to continue.
```
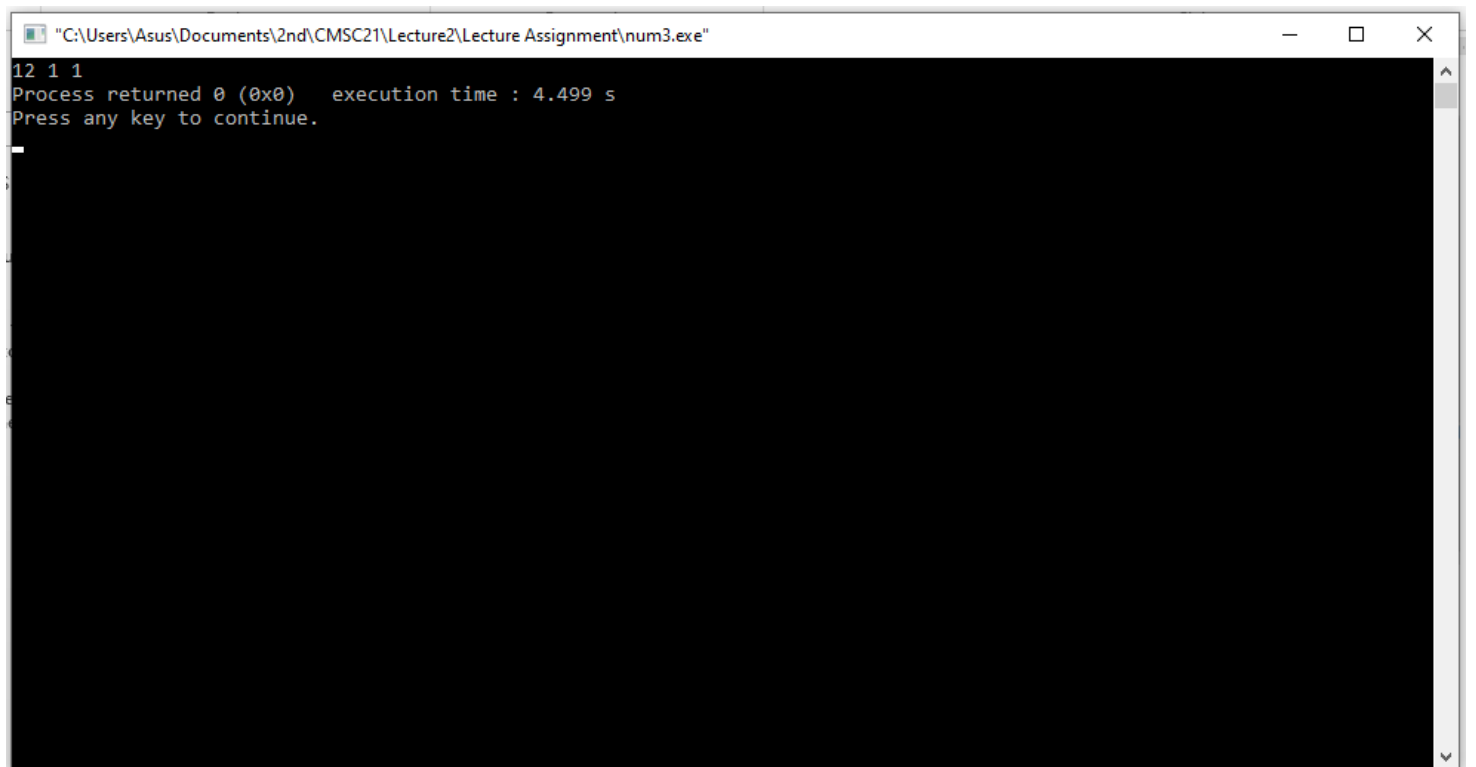
d. **Output=** 12 1 1

```c
#include <stdio.h>
int main (void) {
    int i,j,k;

    i = j = k = 1;
    printf("%d", ++i || ++j && ++k);
    printf("%d %d %d", i, j, k);
    }
```

```
"C:\Users\Asus\Documents\2nd\CMSC21\Lecture2\Lecture Assignment\num3.exe"
12 1 1
Process returned 0 (0x0)    execution time : 4.499 s
Press any key to continue.
```