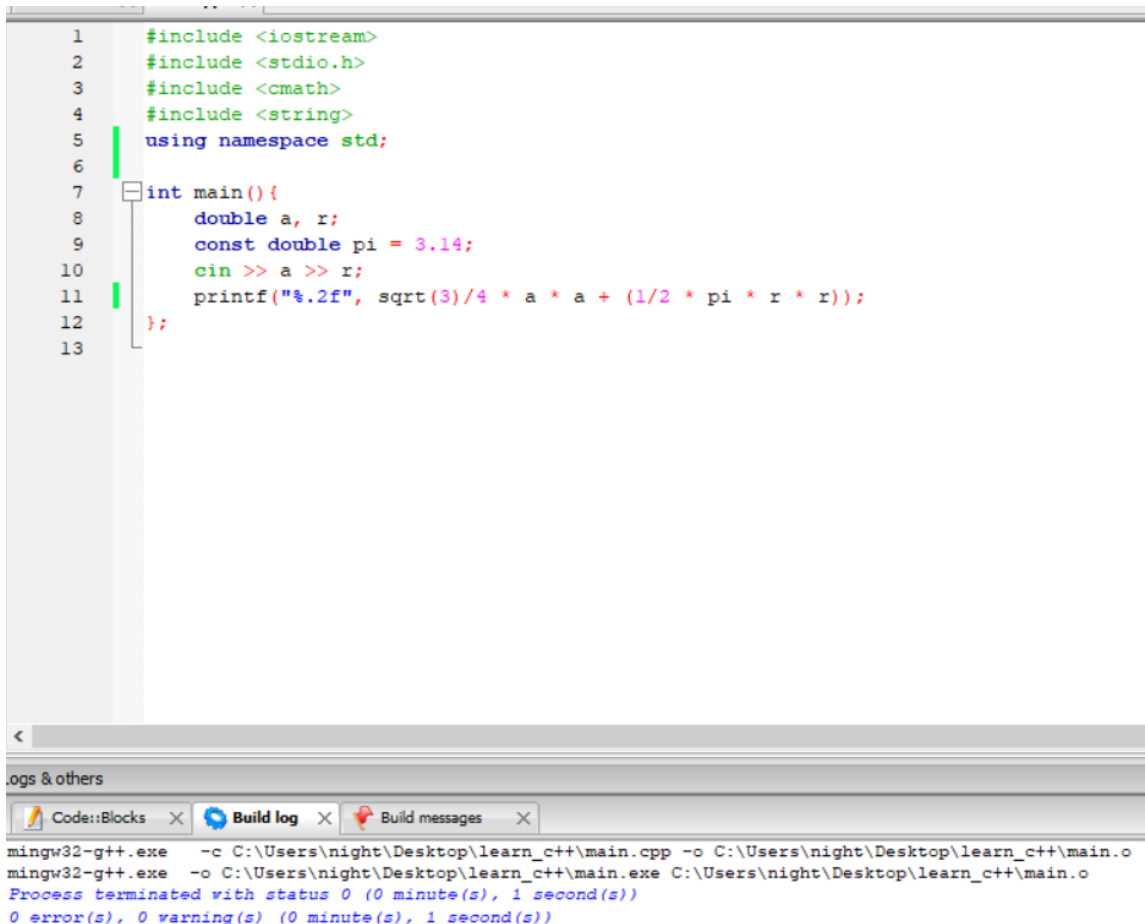


ASSIGNMENT 01

1. To compile a C/C++ program, firstly, we must have a source code. Then, there are three stages we need to go through:
 - Pre-processing: to carry out the program's behaviors.
 - Remove comments in the program
 - Expand the macros and header so that it is ready to be compiled.
 - Compiling: to convert the source code into assembly language so that the computer can understand.
 - Return warning about any errors.
 - If an error is found, then the compilation process will be terminated.
 - Linking: to link all the function calls and produce an executable or a library.
 - Link to any external libraries we want to use in the program.
 - If no errors occur, we will have an executable file or library by the compiler.
3. I installed MinGW(GCC) in Code::Blocks. I wrote a source file, then I compiled it. It showed the compile result in the Build log.



```
1  #include <iostream>
2  #include <stdio.h>
3  #include <cmath>
4  #include <string>
5  using namespace std;
6
7  int main(){
8      double a, r;
9      const double pi = 3.14;
10     cin >> a >> r;
11     printf("%.2f", sqrt(3)/4 * a * a + (1/2 * pi * r * r));
12 };
```

logs & others

Code::Blocks x Build log x Build messages x

```
mingw32-g++.exe -c C:\Users\night\Desktop\learn_c++\main.cpp -o C:\Users\night\Desktop\learn_c++\main.o
mingw32-g++.exe -o C:\Users\night\Desktop\learn_c++\main.exe C:\Users\night\Desktop\learn_c++\main.o
Process terminated with status 0 (0 minute(s), 1 second(s))
0 error(s), 0 warning(s) (0 minute(s), 1 second(s))
```