Compile and Run C++ Code

Hello World

1. Create a folder called *c++Assignments* where you can store all your programs
2. Create a folder called *helloWorld* inside *c++Assignments*
3. Create a file called *helloWorld.cpp* inside *helloWorld*
4. Open Visual Studio Code (or some IDE of your choice) and navigate to the *helloWorld*-folder.
5. Open *helloWorld.cpp*
6. Write the following code:

```cpp
#include <iostream>
int main()
{
    std::cout << "Hello World!" << std::endl;
}
```

7. Open up a shell
   Check if the gnu-compiler is installed:
   `which g++`
   → /usr/bin/g++
8. Navigate to the folder *helloWorld*
9. Run the following command to compile your code:
   `g++ -std=c++17 helloWorld.cpp –o helloworld.out`
10. Run the program:
    `./helloworld.out`

How did you compile the code? What do all these things mean?

Are there other useful flags? Which one?