

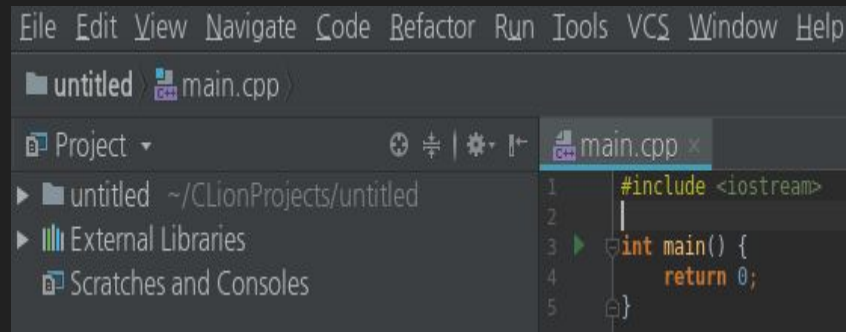
# Computer Programming

## Lab 12

2018.05.25

# CLion

- This is a IDE for C++ programming language (similar to IntelliJ in Java).
- For more information, refer to <https://www.jetbrains.com/clion/> .



# CLion - Getting License

- This is discussed in Lab 1.
- You need to obtain license using your SNU email address to use CLion.
- To get a license, follow the steps in: <https://www.jetbrains.com/shop/eform/students>.

## JetBrains Products for Learning

Apply with:

UNIVERSITY EMAIL ADDRESS

ISIC/ITIC MEMBERSHIP

OFFICIAL DOCUMENT

Status:

☒ I'm a student

☐ I'm a teacher

Name:

First name

Last name

Our software will be registered to your real name.

Email address:

Your valid university email address, e.g. john.smith@mit.edu.

I confirm that the email address provided above belongs to me.

Country / region:

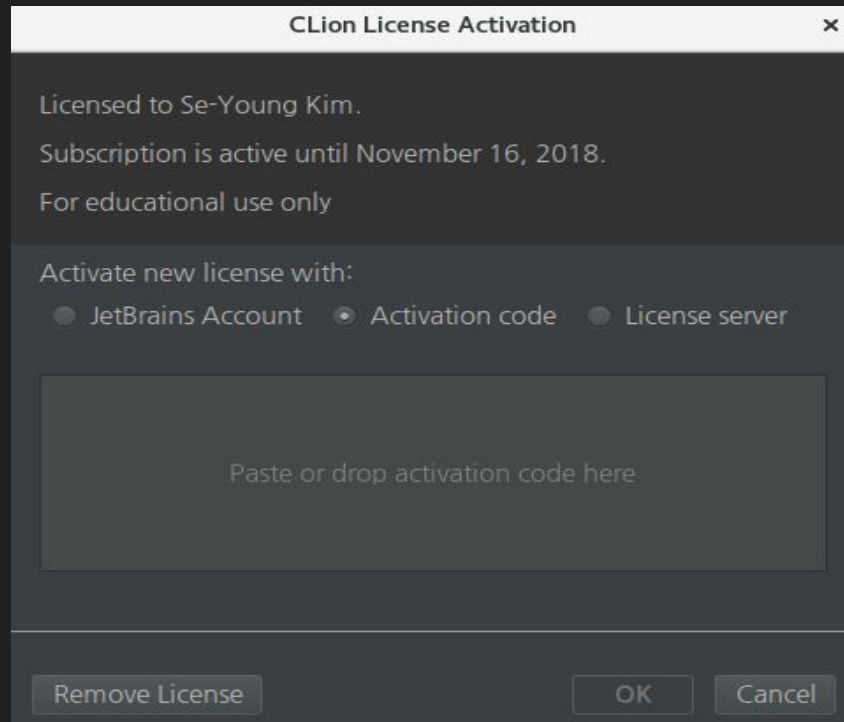
Korea, Republic of

☐ I have read and I accept the [JetBrains Privacy Policy](#)

APPLY FOR FREE PRODUCTS

# CLion - Getting License

- Download your activation code (in TXT format) from the email message.
- You may access the code again by connecting to <https://account.jetbrains.com/licenses/assets> .
- Activate using that code from CLion by [Help] -> [Register...] .



# First C++ Code

- Java (HelloWorld.java):

```
public class HelloWorld {  
    public static void main(String[] ar) {  
        System.out.println("Hello World!");  
    }  
}
```

- C++ (HelloWorld.cpp):

```
#include <iostream>  
int main(int argc, char *argv[]) {  
    std::cout << "Hello World!" << std::endl;  
    return 0;  
}
```

OR

```
#include <iostream>  
using namespace std;  
int main(int argc, char *argv[]) {  
    cout << "Hello World!" << endl;  
    return 0;  
}
```

# How to Run?

- In CLion:

(1) [Run] -> [Build] (OR CTRL+F9).

(2) [Run] -> [Run 'blabla'] (OR SHIFT+F10).

Output will be shown in the console below code part.

- In command line:

```
g++ HelloWorld.cpp -o HelloWorld
```

```
./HelloWorld
```

Output will be shown in the console below written commands.

# Second C++ Code

- Java (FileRead.java):

```
import java.io.*;
import java.util.*;
public class FileRead {
    public static void main(String[] ar) throws
FileNotFoundException {
        File file = new File("test.txt");
        Scanner input = new Scanner(file);
        String oneLine;
        while(input.hasNextLine()) {
            oneLine = input.nextLine();
            System.out.println(oneLine);
        }
    }
}
```

- C++ (FileRead.cpp):

```
#include <fstream>
#include <iostream>
#include <string>
int main(int argc, char *argv[]) {
    std::ifstream file("test.txt");
    std::string oneLine;
    while(std::getline(file, oneLine)) {
        std::cout << oneLine << std::endl;
    }
    file.close();
    return 0;
}
```