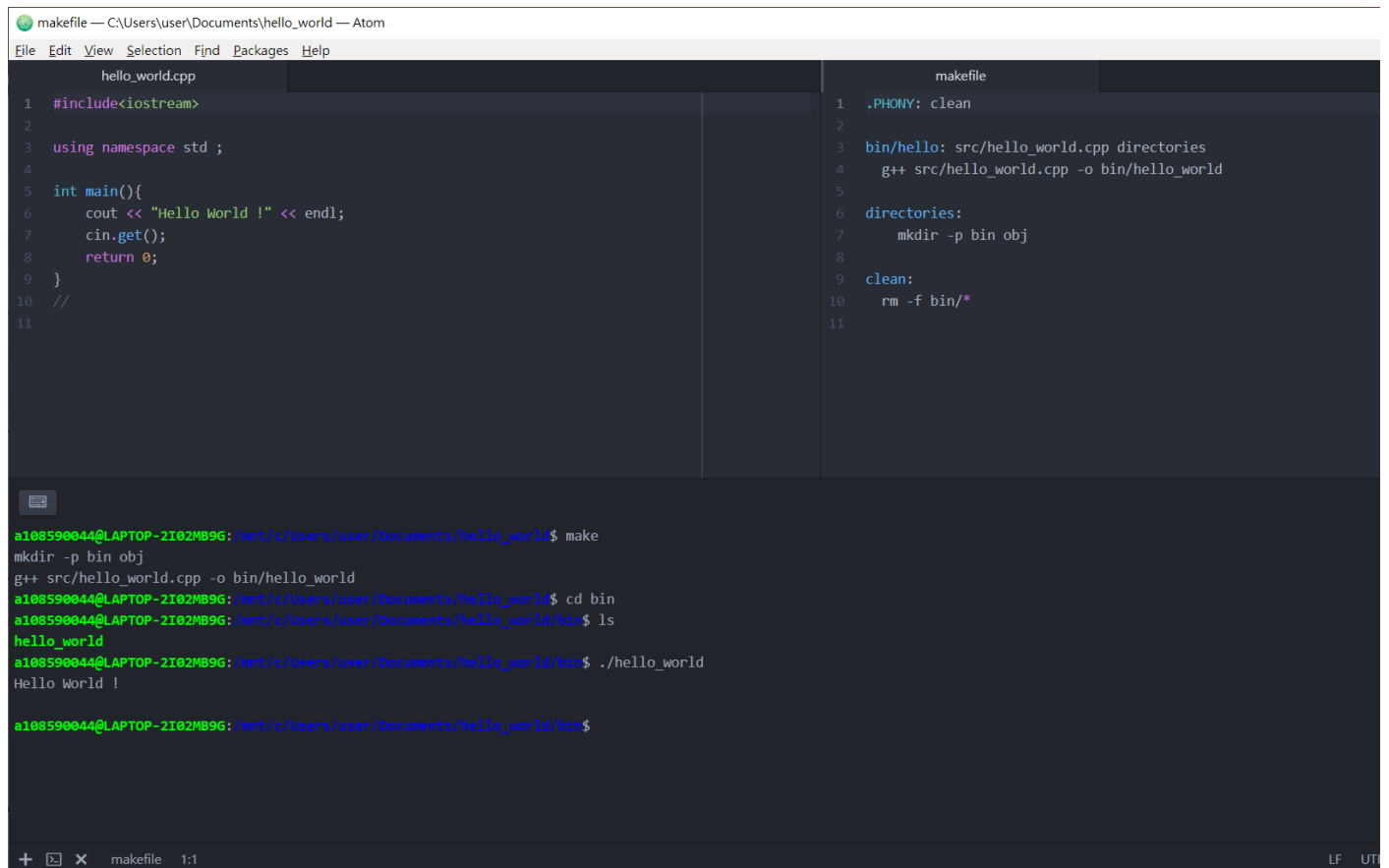


OOP_HW00_108590044 何柏憲

Part 1 : HelloWorld Demo



The screenshot shows the Atom editor interface. The left pane displays `hello_world.cpp` with the following code:

```
1 #include<iostream>
2
3 using namespace std ;
4
5 int main(){
6     cout << "Hello World !" << endl;
7     cin.get();
8     return 0;
9 }
10 //
11
```

The right pane displays the `makefile` with the following content:

```
1 .PHONY: clean
2
3 bin/hello: src/hello_world.cpp directories
4     g++ src/hello_world.cpp -o bin/hello_world
5
6 directories:
7     mkdir -p bin obj
8
9 clean:
10     rm -f bin/*
11
```

Below the editor is a terminal window showing the execution of the program:

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world$ make
mkdir -p bin obj
g++ src/hello_world.cpp -o bin/hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world$ cd bin
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ./hello_world
Hello World !
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$
```

Part 2 : Linux Cmd Praticce

1.pwd:顯示目前目錄

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ pwd
/mnt/c/Users/user/Documents/hello_world/bin
```

2.ls:列出目前目錄中的檔案與目錄列表

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
hello_world
```

3.cd:變換目錄

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ cd ..
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world$ cd bin
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$
```

4.mkdir&rmdir:創建新目錄&刪除空的目錄

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ mkdir diy
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
diy hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ rmdir diy
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
hello_world
```

5.rm:移除檔案及目錄

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
1234.txt hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ rm 1234.txt
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
hello_world
```

6.touch:可以更改檔案的時間戳記&建立空檔案

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ touch 1234.txt
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
1234.txt hello_world
```

7.--help:可以查詢指令的用法

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ mkdir --help
Usage: mkdir [OPTION]... DIRECTORY...
Create the DIRECTORY(ies), if they do not already exist.

Mandatory arguments to long options are mandatory for short options too.
-m, --mode=MODE      set file mode (as in chmod), not a=rwx - umask
-p, --parents         no error if existing, make parent directories as needed
-v, --verbose        print a message for each created directory
-Z                   set SELinux security context of each created directory
                     to the default type
--context[=CTX]      like -Z, or if CTX is specified then set the SELinux
                     or SMACK security context to CTX
--help              display this help and exit
```

8.cp:可以複製檔案到指定目錄

```
108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ touch 1234.txt
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
1234.txt hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ cp 1234.txt /mnt/c/Users/user/Documents/hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls /mnt/c/Users/user/Documents/hello_world
1234.txt  .git  makefile  .obj  src
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$
```

9.mv:可以移動檔案或重新命名檔案及目錄指令

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
1234.txt  hello_world
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ mv 1234.txt 4321.txt
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ ls
4321.txt  hello_world
```

10.cat:可以印出檔案內容或合併多檔

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ cat 4321.txt
123
```

11.su:可以讓 linux 使用者獲得 root 權限

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin$ su
Password:
root@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world/bin#
```


12.ap-get:可以對某些套件進行操作，可能是安裝或移除等等行為

```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world$ sudo apt-get install g++
[sudo] password for a108590044:
Reading package lists... Done
Building dependency tree
Reading state information... Done
g++ is already the newest version (4:10.1.0-1).
0 upgraded, 0 newly installed, 0 to remove and 176 not upgraded.
```

13.sudo:允許系統管理員分配給一般用戶合理的權限，像是可以下載套裝軟體的權限(如下)


```
a108590044@LAPTOP-2I02MB9G:/mnt/c/Users/user/Documents/hello_world$ sudo apt-get install g++
[sudo] password for a108590044:
Reading package lists... Done
Building dependency tree
Reading state information... Done
g++ is already the newest version (4:10.1.0-1).
0 upgraded, 0 newly installed, 0 to remove and 176 not upgraded.
```

Part 3: Gitlab Registration

 GitLab

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Access Tokens

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Active Sessions

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User Settings ▸ Edit Profile

Public Avatar

You can upload your avatar here or change it at gravatar.com



Upload new avatar



Choose file... No file chosen

The maximum file size allowed is 200KB.

Current status

This emoji and message will appear on your profile and throughout the interface.

Your status

 What's your status? 

Main settings

This information will appear on your profile

Full name

108590044

Enter your name, so people you know can recognize you

Email

t108590044@ntut.org.tw

We also use email for avatar detection if no avatar is uploaded

Public email

Do not show on profile ▾

User ID

7149272