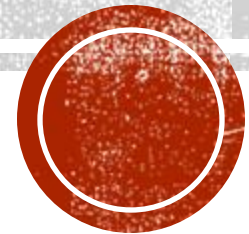


C LANGUAGE

NOTE

Chapter 1 : Base structure of C and Output



BEFORE WE START

- Please install some compilers or IDE in your Computer in order to Open the .c document.
- If you haven't done it , Please download the choose one of these Compilers and Download.
- DEV C++ : <https://sourceforge.net/projects/orwelldevcpp/>
- Code Blocks : <https://www.codeblocks.org/downloads/>
- I will use the DEV C++ to do the sample code.



@STUDY_DISES



BASE STRUCTURE

- The base structure of C language is

```
1  #include <stdio.h>
2
3  int main ()
4  {
5      /*
6      ...
7      program will be written here.
8      ...
9      */
10     return 0 ;
11 }
```



BASE STRUCTURE

- By the sample case, we need to "include" a C-Library named "stdio.h" .
- After them, we need to declare our main program.



OUTPUT INSTRUCTION

- If we want to Output some information to the User , we need a instruction of Output.
- This instruct is " printf () ;"
- By the way, in C language, we usually need a ";" after any instructions.
- There will be some cases doesn't need it, but usually need it.
- So Let's to our first program
- Output : "Hello World!!!!!"



OUTPUT INSTRUCTION

```
1  #include <stdio.h>
2
3  int main ()
4  {
5      printf( "Hello World!!!!!!\n" ) ;
6      return 0 ;
7  }
```



OUTPUT INSTRUCTION

- By the sample program, we have a output instruction at 6th line.
- `printf("Hello World!!!!\n") ;`
- NOTE
 1. What we want to output will be out into the "" .
 2. \n is a instruction that called end-of-line, you can print the hello world twice and run the program without \n , then you will know what it means.

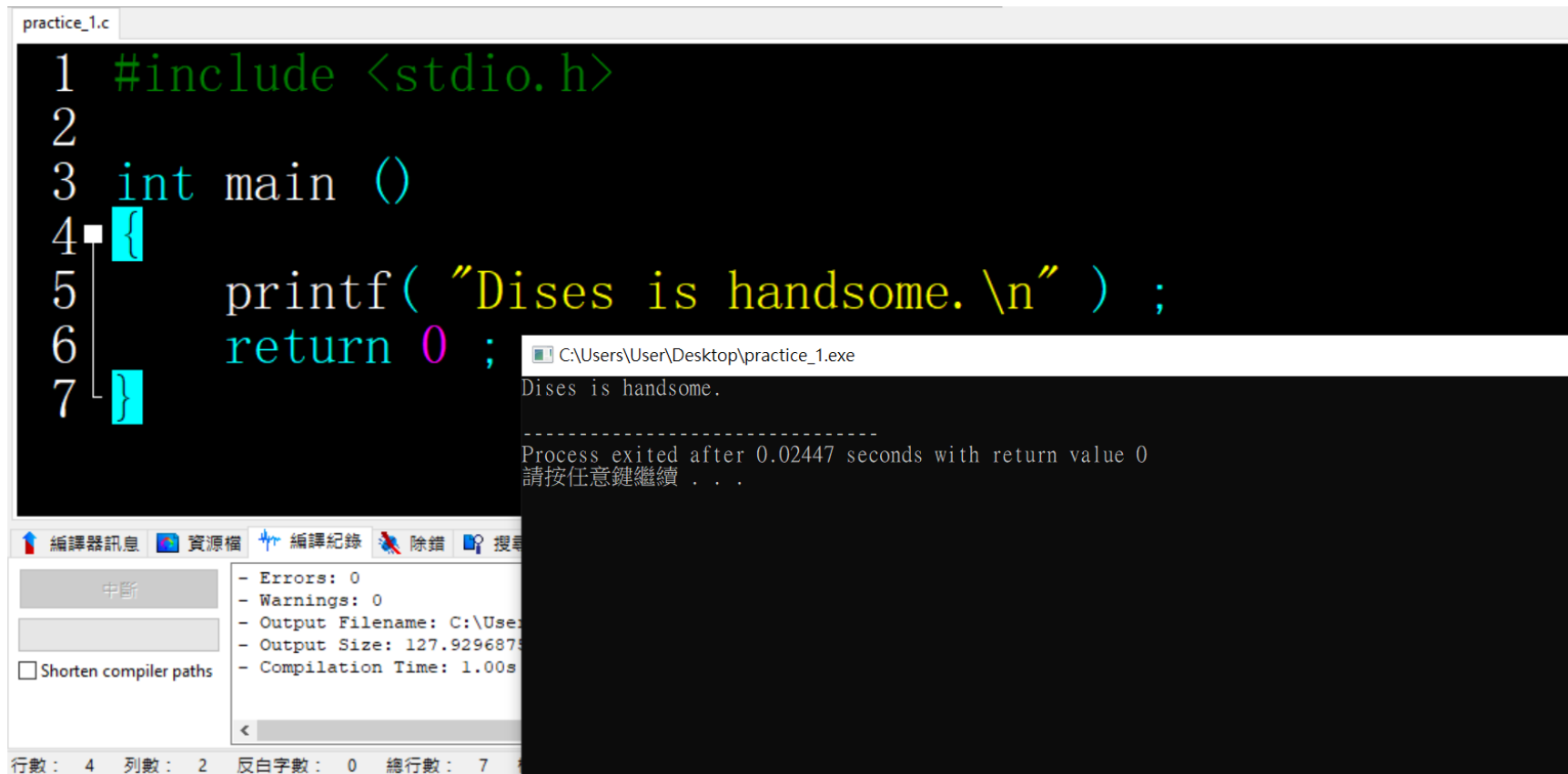


PRACTICE

- Practice 1 :
- Please output your name with an adjective like Dises is handsome.



SAMPLE CODE



The image shows a screenshot of a C program being edited and executed. The editor window, titled 'practice_1.c', contains the following code:

```
1 #include <stdio.h>
2
3 int main ()
4 {
5     printf( "Dises is handsome. \n" ) ;
6     return 0 ;
7 }
```

The code is color-coded: preprocessor directives are green, keywords are cyan, strings are yellow, and numbers are magenta. The execution output window, titled 'C:\Users\User\Desktop\practice_1.exe', shows the output 'Dises is handsome.' followed by a separator line and the message 'Process exited after 0.02447 seconds with return value 0' and '請按任意鍵繼續 . . .'. Below the output window, a panel shows compilation statistics: 0 errors, 0 warnings, output filename 'C:\Users\User\Desktop\practice_1.exe', output size '127.9296875', and compilation time '1.00s'. At the bottom, a status bar indicates '行數: 4 列數: 2 反白字數: 0 總行數: 7'.

```
practice_1.c
1 #include <stdio.h>
2
3 int main ()
4 {
5     printf( "Dises is handsome. \n" ) ;
6     return 0 ;
7 }

C:\Users\User\Desktop\practice_1.exe
Dises is handsome.
-----
Process exited after 0.02447 seconds with return value 0
請按任意鍵繼續 . . .

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\User\Desktop\practice_1.exe
- Output Size: 127.9296875
- Compilation Time: 1.00s

行數: 4 列數: 2 反白字數: 0 總行數: 7
```

