

```
1 /**
2  * @author hfwei
3  * @date 2023-09-16
4  */
5 // preprocessor directives
6 // stdio: standard input output
7 // .h: header file
8 // gcc -E hello.c
9 #include <stdio.h>
10
11 /*
12  * This is the main function.
13  * Any executable C program must contain one and only one
14  * main function.
15  * function: y <- f(x)
16  * main: int <- f()
17  * does not accept arguments
18  * returns an integer (to OS)
19  * about int
20  * about void
21  */
22 int main() {
23     /*
24      * printf: print + f: format
25      */
26     printf("Hello, World!\n"); /* return an integer */
27
28     // return with exit code 0
29     return 0;
30 }
```