

# Getting Started

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## Setting Up

In this module, gcc is used as a compiler to compile C programs. To install GCC in Linux, run these commands in the Terminal.

```
$ sudo apt update
$ sudo apt install build-essential

$ gcc --version
# if this runs successfully you should see the version number of
```

## Compile your first program

We will take this code as a starting point. It is commented extensively, which should be followed.

```
/* Include standard input and output */
#include <stdio.h>
/*
Function: Main
Parameters: none
returns: int
description: Prints out the string "Hello World"
*/
```

```
*/  
  
int main()  
{ /* Begin Function */  
    printf("hello, world\n"); /* Actual print statement */  
    return (0);  
} /* End function and program*/
```

To compile this run:

```
# the -o here specifies what you want the output file to be called  
$ gcc -o hello hello.c  
$ ls  
# you will see the compiled file  
$ ./hello  
# will run the file
```