

To get started with C programming, you'll need a few tools and resources.

Here's a step-by-step guide:

## 1. Set up a C compiler:

A C compiler is required to compile and run your C programs. One popular option is GCC (GNU Compiler Collection), which is a widely used and freely available compiler. You can download GCC for your specific operating system and follow the installation instructions.

## 2. Choose a text editor or IDE:

You need a text editor or an Integrated Development Environment (IDE) to write your C code. Some popular options include Visual Studio Code, Sublime Text, Atom, or Code::Blocks (which is an IDE specifically designed for C and C++ development). Choose the one that suits your preferences and install it.

## 3. Write your first C program:

Create a new file with a .c extension in your chosen text editor or IDE. For example, you can create a file called hello.c.

In this file, write the following code:

```
#include <stdio.h>

int main() {
    printf("Hello, World!\n");
    return 0;
}
```

```
}
```

This is a simple “Hello, World!” program, which is often the first program you write in any programming language.

#### 4. Save the file:

Save the file with the .c extension in a location of your choice.

#### 5. Compile the program:

Open your command prompt or terminal and navigate to the directory where you saved the hello.c file. Use the gcc command to compile the C program into an executable file. For example, run the following command:

```
gcc hello.c -o hello
```

This command tells the compiler (gcc) to compile hello.c and produce an output file called hello.

#### 6. Run the program:

After successful compilation, you can run the program by executing the generated executable file. In the command prompt or terminal, enter the following command:

```
./hello
```

The program should run and display the output: "Hello, World!".

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