

# Function Declarations

This lesson explains how to declare functions in C++

## We'll cover the following



- Declaration of Function in C++
  - Example:

## Declaration of Function in C++ #

Before we discuss *calling* functions, we must talk about *declarations*. Programs written in C++ are executed in logical order from the top down. A statement can only use *symbols*, or named constructs like *functions*, that are declared in code that has already been executed. Simply put; the compiler must be aware of the name used to describe a function before that function can be called in the code.

For example, to allow `main` to call functions that are defined after the `main` function itself in the code, we use **forward declarations**. A *forward* declaration tells the compiler that a function exists and what its *arguments* look like, but the *definition* of the function will be elsewhere.

The *declaration* begins much the same as the *definition*.

## Example: #

```
// Definition
int fctn2(int num1, int num2)
{ ... }

// Declaration
int fctn2(int, int);
```



**Important Note:** that the *argument* names are **optional** since the *declaration* does not need to use the arguments in any way. However, keeping the *arguments* needed in the *declaration* may be useful for documentation purposes.

Now that we've learned how to declare functions let's learn how to *call* functions in C++.