

# **Learn C: Introduction**

# Syntax in C

The rules that dictate the correct format of code for a specific programming language are known as syntax. Examples of syntax in C are:

- All statements must end with a semicolon, ;
- Keywords and other code elements are casesensitive

When compiling C code, an error will occur when the syntax of the code is incorrect.

```
// Statements must end in a semicolon (;)
// correct
printf("Hello World!");

// error
printf("Hello World!")

// Code elements are case sensitive
// correct
printf("Hello World!");

// error
PRINTF("Hello World!");
```

# **Escape Sequences**

In C, an escape sequence is a non-visual character used within a string.

 $\n$  is an escape sequence that adds a newline to a string.  $\n$ t is an escape sequence that adds a tab of spaces to a string.



#### Comments in C

In C, comments are text within code that will be ignored by the compiler. They are used to document code. Line comments begin with a double forward slash, // . All text after // will be part of the comment until a new line is reached.

Block comments begin with a forward slash and asterisk, /\* and end with an asterisk and forward slash, \*/ . Block comments can span multiple lines as new lines are part of the comment.

```
// Comments

/* This review content is
about comments and how they
can be used to document code */

// This is a line comment

/* This is a
block comment */
```

# Compiling C Code with gcc

gcc is an application used to compile C programs into an executable that can run on the target computer. gcc stands for GNU Compiler Collection. gcc compiles C code using the code file as an unflagged command-line argument. The output executable file will be called a.out . The -o flag followed by some text can be used to designate the name of the output executable file.

```
gcc script.c
gcc script.c -o myProgram
```

```
→ Print  

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```