MODULE PRACTICE

Syntax in C

```
// 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!");
```

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 case-sensitive

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

Compiling C Code with gcc

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

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.

command-line argument. The output executable file will be called a.out. The of flag followed by some text can be used to designate the name of the output executable file.

Comments in C

```
// 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 */
```

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.