Listing 5.1 forloop.cpp

// forloop.cpp -- introducing the for loop
#include <iostream>
using namespace std;
int main()
{
    int i; // create a counter
    // initialize; test ; update
    for (i = 0; i < 5; i++)
        cout << "C++ knows loops.\n";
    cout << "C++ knows when to stop.\n";
    return 0;
}

Here is the output:

C++ knows loops.
C++ knows loops.
C++ knows loops.
C++ knows loops.
C++ knows loops.
C++ knows when to stop.

This loop begins by setting the integer i to 0:

i = 0

This is the loop initialization part of the loop. Then, in the loop test, the program tests to see if i is less than 5:

i < 5

If so, the program executes the following statement, which is termed the loop body:

cout << "C++ knows loops.\n";