```
 1   // Fig. 2.4: fig02_04.c
 2   // Printing multiple lines with a single printf.
 3   #include <stdio.h>
 4
 5   // function main begins program execution
 6   int main( void )
 7   {
 8      printf( "Welcome\nto\nC!\n" );
 9   } // end function main
```

```
Welcome
to
C!
```

Fig. 2.4 | Printing multiple lines with a single `printf`.

2.3 Another Simple C Program: Adding Two Integers

Our next program uses the Standard Library function `scanf` to obtain two integers typed by a user at the keyboard, computes the sum of these values and prints the result using `printf`. The program and sample output are shown in Fig. 2.5. [In the input/output dialog of Fig. 2.5, we emphasize the numbers entered by the user in **bold**.]

```
 1   // Fig. 2.5: fig02_05.c
 2   // Addition program.
 3   #include <stdio.h>
 4
 5   // function main begins program execution
 6   int main( void )
 7   {
 8      int integer1; // first number to be entered by user
 9      int integer2; // second number to be entered by user
10
11      printf( "Enter first integer\n" ); // prompt
12      scanf( "%d", &integer1 ); // read an integer
13
14      printf( "Enter second integer\n" ); // prompt
15      scanf( "%d", &integer2 ); // read an integer
16
17      int sum; // variable in which sum will be stored
18      sum = integer1 + integer2; // assign total to sum
19
20      printf( "Sum is %d\n", sum ); // print sum
21   } // end function main
```

```
Enter first integer
45
Enter second integer
72
Sum is 117
```

Fig. 2.5 | Addition program.