# Simple Loops

**The goal for this exercise** is to understand how to use both **while** and **for** loops.

**What you need to do for this exercise:**  In the provided starter project, fill in the Simple\_Loops. RunExercise method so that that displays a pattern on the screen, similar to the following:

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The user should be prompted to enter the length of the line. Make sure that you can do this with both a **while** loop, a **do…while** loop and a **for** loop.

**while(** <expression> **)**

**{**

 // multiple statements here.

 // Once all the statements have been executed, go back to the **while**

**}**

**for(** <initializing expression> ; <checking expression> ; <increment expression> **)**

**{**

 // multiple statements here.

// Once all the statements have been executed,
// go back to the **<increment expression>**, then

// the <checking expression>, then (if true) back through the loop

**}**

**do**

**{**

 // multiple statements here.

 // All the statements will be guaranteed to execute the first time

// Then check and see if <expression> is true. If so, then

// go back to the top of the loop & start over. If not, then leave

// the loop

**}**

**while(** <expression> **) ; //** note the REQUIRED semi-colon

 **//** that the other loops DON'T have