

```

18 // This file demonstrates the use of nested loops to produce
19 // 4 sets of patterns made up of asterisks.
20 // Console application always starts in Main method
21 // Displays patterns created with nested loops
22 static void Main(string[] args)
23 {
24     const int MAX_ROWS = 10; // Number of rows in each pattern
25     // "\n" produces a new line in the output
26     Console.WriteLine("Pattern A\n");
27     for (int row = 1; row <= MAX_ROWS; row++)
28     { // row is also # of stars on line
29         for (int star = 1; star <= row; star++)
30             Console.Write("*");
31         Console.WriteLine();
32     }
33     Console.WriteLine("\nPattern B\n");
34     for (int row = MAX_ROWS; row >= 1; row--)
35     { // row is also # of stars on line
36         for (int star = 1; star <= row; star++)
37             Console.Write("*");
38         Console.WriteLine();
39     }
40     Console.WriteLine("\nPattern C\n");
41     for (int row = MAX_ROWS; row >= 1; row--)
42     { // row is also # of stars on line
43         // Need (MAX_ROWS - row) # of spaces first
44         for (int space = 1; space <= MAX_ROWS - row; space++)
45             Console.Write(" ");
46         for (int star = 1; star <= row; star++)
47             Console.Write("*");
48         Console.WriteLine();
49     }
50     Console.WriteLine("\nPattern D\n");
51     for (int row = 1; row <= MAX_ROWS; row++)
52     { // row is also # of stars on line
53         // Need (MAX_ROWS - row) # of spaces first
54         for (int space = 1; space <= MAX_ROWS - row; space++)
55             Console.Write(" ");
56         for (int star = 1; star <= row; star++)
57             Console.Write("*");
58         Console.WriteLine();
59     }
60 }

```

```

Pattern A
*
**
***
****
*****
*****
*****
*****
*****
*****

Pattern B
*****
*****
*****
*****
*****
****
***
**
*

Pattern C
*****
*****
*****
*****
*****
****
***
**
*

Pattern D
*
**
***
****
****
*****
*****
*****
*****
*****

Press any key to continue . . .

```