7.7-Nested Loop

Program

using System;

class Program

{

    static void Main()

    {

        Console.Write("Enter the number of rows for the pyramid: ");

        int numberOfRows = int.Parse(Console.ReadLine());

        Console.WriteLine("\nPyramid:");

        for (int i = 1; i <= numberOfRows; i++)

        {

            for (int j = numberOfRows - i; j > 0; j--)

            {

                Console.Write(" ");

            }

            for (int k = 1; k <= 2 * i - 1; k++)

            {

                Console.Write("*");

            }

            Console.WriteLine();

        }

    }

}

Exercise

Write a C# program that prompts the user to input the number of rows for a pyramid.

Utilize nested loops to construct the pyramid pattern with asterisks (*) in the console output.

Print each row of the pyramid, increasing the number of asterisks per row and aligning them centrally.

Hint

Constructs and prints a pyramid pattern using nested loops, where each row contains an increasing number of asterisks (*) aligned centrally.

Explanation

Using nested loops, it constructs and prints a pyramid pattern with asterisks (*) aligned centrally on each row, gradually increasing the number of asterisks per row.