How the program works

The program initially begins with the creation of a function called “triangle (size)*”.* The size parameter is where the user will be able to input how many lines of the pattern he/she wants. The program will then set a variable in the name of line with a value of nothing (“”). A loop is then created from the range of 0 to the size set earlier. This loop contains the main function. The main function has two loops within the original loop. One loop for the amount of space we indent (to make the overall image look nice) and the other loop for how many asterisks we are going to put in the line. In chronological order the first loop will produce spaces on one line in the range of 0 to this equation:

(size-1-i)+11-(size-1-i)-i

The size is the initial parameter and i is how many times the loop has gone around. The amount of spaces is rewritten to the variable line. Then, the program goes into the second loop. Here the amounts of asterisks are added. The loop ranges from 0 to this equation:

2\*i+1

From that amount of asterisks is added to the amount of spaces. The final result of that line is printed and the line variable is reset and the loop continues until the range equals the parameter.