**Program Pyramid**

**Purpose:** To display a pyramid when the user enters an integer between 1-9.

**Input:** User needs to input an integer between 1-9.

**Output:** The program will output a pyramid the number of rows the user inputted.

Program Logic **(Pseudocode)**Algorithm Pyramid

**Define Terms**Let “integer” be number of rows 1-9

START

1. integer 🡨 user input
2. While input is invalid
   1. if (integer < 1) or (integer > 9) then,  
       2.1.1 Print “Error: The number must be between 1-9.”  
       2.1.2 Exit
3. While input is valid
   1. The variable “i” = 1

3.1.1 if “i” is less than or equal to “integer”, then make variable “y” = 1.

3.2. The variable “y” = 1  
 3.2.1 if “y” is less than or equal to “integer” – “i” multiply 2, then print the results  
 3.2.2 increase “y” in increments of 1

3.3. The variable “x” = i  
 3.3.1 if “x” is greater than or equal to 1, then print a space + “x”  
 3.3.2 decrease “x” in decrements of 1

3.4. The variable “x” = 2  
 3.4.1 if “x” is less than or equal to “i”, then print a space + ”x”  
 3.4.2 increase “x” in increments of 1

1. Print a line with nothing **[This makes each row go to the next line]**

END Pyramid.