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Program 1

Objective:

The objective of this program was to become more familiar with the concepts of user generated variables and the manipulation of loops ad nested loops.

Variables:

Project 1:

pyr: is an integer designated by the user to determine the number of tiers the right-sided pyramid should have.

block: is a string of character’s designated by the user to make up the pyramid

Project 2:

triangle: is much the same as pyr, it serves the same purpose of getting user input to determine the size of the pyramid

building\_block: like block in project 1, building\_block takes on the string of character’s that the user inputs

Project 3:

x: is the counting variable in the range (-15, 15)

y: is the function of x that generates the parabolic figure

k: is the counting variable in the range of (10, 0)

g: is the inverse function of y that shows the right half of the upright-parabola

rad: is the user generated radius of the circle

r: is the counting variable from rad down to 1

side: the integer representation of the circular function of rad and r

Algorithm:

Using the input() command, the user could generate their own values for the code to run, therefore increasing the variability of the results.

Problems:

The code is limited to integers and strings. Attempting to use floats or special characters will generate immediate errors. Negative numbers will also yield errors. Neither the upright parabola, nor the circular figures are mapped on the left side. I was unable to determine a relationship that would mirror the code that portrays what would be the right side of this axis.