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CSC 201

Lab 1 Reports

Report

During this lab we focused on using the print command to print out different shapes and equations and used our thinking to figure out a way to graph complex shapes. So a few main objectives of this lab was getting us to think in the programing language as well as get us used to loops and commands.

The most important variables that I used in my project was the for loop. I used to for loop in every problem to compute the equation from a range. The second most used line was the range command in the for loop to set the loop to run from one end of the range to the other.

In the assignment it asks about what if the characters to build the pyramids had more than one character (instead of just a ‘\*’ making the pyramid out of “XX”) and in the first problem, this didn’t cause any issues, because in every line you just add on another character set, and the more characters you have the longer the base is on the triangle, but for the symmetrical one, having more than one character be the building block caused my code to make the pyramid lean to the left, so for every character, have that many spaces added on to the left making it symmetrical.

While doing the Lab I had some trouble with the parabola, figuring out the general idea of using the range to solve for y values and then using the y values to solve for the x values, but figuring out how to execute that in python was tricky for me.

In each program there are things that will crash them, such as for the parabola if you accidently switch the range it will crash or if your range is too small it won’t print anything and same for the circle.