Andres Nava

2-7-19

CS 2302 Data Structures

1:30-2:50

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The purpose of this lab is to make shapes and lines and recursively make more of the same shapes and lines. For the square shape I basically made 4 other squares ¼ the size of the main one and tried to figure out how to get them to there respected corners. For the first circle one I just got the radius and multiplied the center which moved it to the left and mad it smaller as well. For the lines I made a set coordinates so I wouldn’t get lost and then did the math so the tree would never hit another tree. For the other circle on I mad a main circle and made 5 other circle 1/3 of the main size and put them in there respected areas.

For the experimental runs I basically did a bunch of trial and errors with there numbers. For the square one I just tried kept trying the max range and dividing certain numbers to get it to the right area. The circle one I just tried moving around there center. For the line ones it was just a lot of trial and error in the math. For the other circle one I had to fiddle around a lot with the circles and move there centers around and try to move it on the x axis and y axis.

I learned how to use the matplotlib.pyplot import and how to use it.

“I certify that this project is entirely my own work. I wrote, debugged, and tested the code being presented, performed the experiments, and wrote the report. I also certify that I did not share my code or report or provided inappropriate assistance to any student in the class.”