Link to github:  
<https://github.com/JinxXP/n200summer2023>  
  
Pyramid Lab Algorithm:  
  
Goal: to produce a pyramid pattern using nested loops and 1 draw command  
  
Input: no user input  
  
Output: a staircase pattern using shapes drawn in p5  
  
Steps:  
  
1) Define the background dimensions in setup  
2) Globally define the constant size for the shape  
2) define the color of the squares, then define the border color separately using stroke()  
3) In draw function, define variables I and j  
4) Start a for loop “i” that will run 4 times  
 - in this loop create a second loop “j” that will run until equal to i  
5) The square shape should be drawn using the nested loop by using the rect(x,y,h) formula.

Circles Lab Algorithm:  
  
Goal: to produce multiple circles that wraps around one another  
  
Input: no user input  
  
Output: a Russian doll-like effect where each circle drawn is smaller than the previous one   
  
Steps:  
  
1) Define the background size and colors  
2) The draw function will need the variable for the circle’s dimensions defined here (10 should be large enough)  
3) This circle will be drawn using a loop  
 - the number of times this loop will run isn’t known so use a while loop  
4) The while loops condition is the circles diameter being >=10   
5) Circle is drawn using circle(x,y,d) and in this case will be divided in half for each iteration of the loop  
5) As the loop continues, the circle diameter should be subtracted