**PCO4 Pseudocode**

*Synopsys:* The code will run 3 separate spirographs (2 made up of hexagons and 1 made up of octagons) with randomly generated colors and placements that are chosen from lists. The screen will also be a randomly generated color and change each time the code runs. It is intended to look like a piece of simple abstract art that is different every time the code is run.

*Tasks:*

1. Import Libraries: turtle, math and random.
2. Add RGB color library.
3. Insert code that randomizes panel color.
4. Create first turtle (hexagonal shapes).
   1. Assign turtle speed to ten. (﻿turtle.speed(10))
5. Create size, sides and angle of hexagonal shape.
6. Create for loop for first spirograph.
   1. Include code that sends the turtle to a random location from list.
   2. Include code that randomly chooses turtle color.
7. Create a loop for second spirograph.
   1. Include code that sends the turtle to a random location from list.
   2. Include code that randomly chooses turtle color.
8. Create second turtle (octogonal shape).
   1. Assign turtle speed (﻿turtle.speed(10))
9. Create size, sides and angle of octagonal shape.
10. Create for loop for spirograph.
    1. Include code that sends the turtle to a random location from list.
    2. Include code that randomly chooses turtle color.