# CSE 8A Programming Assignment 2

*Name should be formatted as (last, first)*
*If you are working solo you may leave the right column blank.*

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**Part 1 Code:**

```
# Copy and paste ALL of your program's code (including comments!) here
# Make sure to set the font to Courier New
# IMPORTANT: Make sure your code is properly formatted. Code that does not
   have correct indentation will lose marks.

import turtle
import random
slave = turtle.Turtle()
random = random.Random()
slave.speed(10)


list_of_colors = ['blue', 'yellow', 'pink', 'black', 'orange', 'red',
'green']
length_of_line = input('Enter the length of the line (cannot be a
decimal): ')

def drawPart(distance):
    for i in range(1, distance +1):
        slave.forward(1)


integer = 1
while(integer < 50):
    drawPart(int(length_of_line))
    slave.pencolor(list_of_colors[random.randint(0,6)])
    slave.right(20)
    integer += 1


slave.left(75)

integer2 = 1
while(integer2 < 50):
    drawPart(int(length_of_line))
```

```
    slave.pencolor(list_of_colors[random.randint(0,6)])
    slave.right(20)
    integer2 += 1
```

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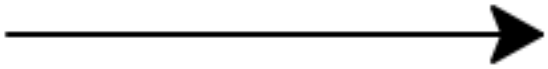
**Part 2 Tests:**

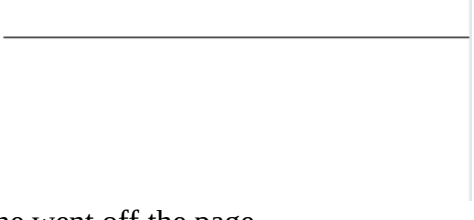
*2.1.1. Include the result of calling your drawPart function with three different inputs. Show the line of code that makes the function call and the resulting visual output.*

Test 1:
input: 10
line of code that makes the function call: drawPart(int(length_of_line))
visual:

Test 2:
input: 100
line of code that makes the function call: drawPart(int(length_of_line))
visual:



Test 3:
input 1000:
line of code that makes the function call: drawPart(int(length_of_line))



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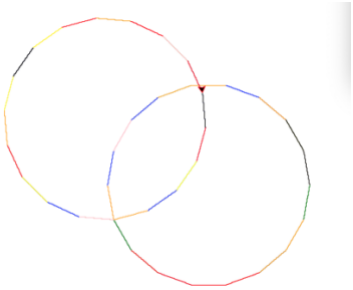
*2.1.2. Briefly explain how changing the argument to drawPart changes what is drawn. How is it connected?*

Changing the argument to drawPart changes the length of each line. It is connected because drawing the line is part of making my shape.

*2.2.1. Include the result of running your full program with three different **user** inputs. Show what the user input is and the resulting visual output.*

Test 1:
input: 5
Visual:

Test 2:
input: 50
visual:



Test 3:
input: 100

visual:

*2.2.2. Briefly explain how changing the input to your program changes what is drawn. How is it connected?*

Changing the input to my program changes the length of each line before each turn. So in conclusion, it makes my “circle” bigger. It is connected because the larger the input the larger each line is therefore the larger the circle is.

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**Known Bugs or Issues:**
*If you have known bugs or issues with your code, let us know here. If you think it works correctly, justify why.*

There are no bugs with my code. It works correctly because changing the value of the imput actually changes the length of the line. So when I enter a larger input, the line becomes longer and if I enter a smaller input, the line becomes shorter.