**Module 5: Lab Activity – Iterative Programming with For Loops**

**Due:** Sunday November 1st at 11:59pm CST

**Deliverables:**

* Python program solutions to the following 5 problems

**Make Sure You:**

* Add comments

# Your name

# The date

# What the program does

* Test your program
* Fix any bugs (try out the debugging techniques you practiced last week)

**Problem 1** – Write a program that prints “Hello World” to the screen 100 times.

**Problem 2** – Assume you have a list of numbers, for example: 12, 10, 32, 3, 66, 17, 42, 99, 20.

1. Write a function that takes a list as a parameter and prints each of the numbers on separate lines.
2. Write a second function that does the same as part a, but prints the square of each number on separate lines.

**Problem 3** – Write a program that asks the user for the number of sides, the length of the side, the color of the line, and the fill color of a regular polygon. The program should include a function that takes this information as inputs, draws the polygon, and then fills it in.

**Problem 4** – Write a program that iterates the integers from 1 to 50. For multiples of three print “Divisible by three” instead of the number and for the multiples of five print “Divisible by five”. For numbers which are multiples of both three and five print “Divisible by both”.

**Bonus** – Write a program to draw some kind of picture. Be creative and experiment with the turtle methods provided in [Summary of Turtle Methods](https://runestone.academy/runestone/static/thinkcspy/PythonTurtle/SummaryofTurtleMethods.html#turtle-methods).   
https://runestone.academy/runestone/books/published/thinkcspy/PythonTurtle/SummaryofTurtleMethods.html#turtle-methods