# Lab 4.03 - Nested For Loops

## Instructions

In this lab we will be drawing images using nested for loops.

For each of the following problems, you will write a function that will draw the desired output. You may use an extra function if you find it helpful.

1. Write a function, draw\_7, to draw the 7x7 square (shown below)

* \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*  
  \* \* \* \* \* \* \*

1. Write a function stars\_and\_stripes, that will draw a 3 sets of rows. 1st a row of 7 stars followed by a row of 7 dashes (shown below)

* \* \* \* \* \* \* \*  
  - - - - - - -  
  \* \* \* \* \* \* \*  
  - - - - - - -  
  \* \* \* \* \* \* \*  
  - - - - - - -

1. Write a function, increasing\_triangle that will print out following:

* 1  
  1 2  
  1 2 3  
  1 2 3 4  
  1 2 3 4 5  
  1 2 3 4 5 6  
  1 2 3 4 5 6 7

1. Write a function, vertical\_stars\_and\_stripes that will print out the following:

* - \* - \* - \* -  
  - \* - \* - \* -  
  - \* - \* - \* -  
  - \* - \* - \* -  
  - \* - \* - \* -  
  - \* - \* - \* -  
  - \* - \* - \* -

## Bonus

1. Write a function that will print a border around a 7x7 square (shown below)

* \* \* \* \* \* \* \* \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* - - - - - - \*  
  \* \* \* \* \* \* \* \*

1. Write a function that will print the following balanced\_triangle.

* 1  
  1 2  
  1 2 3  
  1 2 3 4  
  1 2 3 4 5  
  1 2 3 4 5 6  
  1 2 3 4 5 6 7  
  1 2 3 4 5 6  
  1 2 3 4 5  
  1 2 3 4  
  1 2 3  
  1 2  
  1

1. Write a function that will print the following triangle.

* \*  
   \*\*\*  
   \*\*\*\*\*