# COSC 1336 Lab: 3
Relevant Reading: Chapter 4
**Due February 20, 2017**
(Late date: February 22, 2017)
12.5 points

**Problem 1. [2.5 points]** Write the code that prompts the user to enter a number in the range of 1 through 10 using repetition and validates the input. If an invalid value is entered it should provide an error message and continue to prompt the user for a valid entry until one is given. **(rangeA.py)**

**Problem 2. [10 points]** A bug collector collects bugs every day for seven days. Write a program (bug_count.py) that keeps a running total of the number of bugs collected for each day using a count-controlled loop and another (bugs_cond.py) that uses a condition based loop. The loop should ask for the number of bugs collected each day, and when the loop is finished, the program should display the total number of bugs collected.
**Do not use the range function in either of your implementations.**

When you have completed all of the problems, make sure that you have attached all the files and then click Submit. Remember that you can save each file as you complete it, but you must wait until all files have been attached before submitting, as you can only submit once. For this lab you should submit the following files:

- bugs_count_LastName.py
- bugs_cond_LastName.py
- rangeA_LastName.py
- rangeB_LastName.py

**Be sure to add your last name to the file name** and follow formatting guidelines to avoid point deductions.

Be sure to apply your defensive programming skills to insure that only valid inputs are received from the user.