# CS 115 - Introduction to Programming in Python

# Lab Guide 02A

**Lab Objectives:** Loops, Nested Loops

1. Write a program to input the age of 10 people and print out the number of people whose ages are above 50 years old and the average age of the people who are below 20 years old. **You should not store the ages in a list.**

**Sample Run:**

Age of person 1: **45**

Age of person 2: **56**

Age of person 3: **78**

Age of person 4: **15**

Age of person 5: **14**

Age of person 6: **23**

Age of person 7: **57**

Age of person 8: **13**

Age of person 9: **60**

Age of person 10:**17**

There are 4 people whose ages are above 50

Average age of people whose ages are below 20: 14.75

1. Write a program to input a positive integer from the user. The program should display whether or not the digits of the number are in descending order (left to right). **Note:** the number may have any number of digits.

**Sample Run:**

Enter positive integer (negative to quit): 1234

Digits are not in descending order

**Sample Run:**

Enter positive integer: 9531

Digits are in descending order

1. Write a script to input n (number of lines) and displays the output below.

1

1 2

1 2 3

..

1 2 … n

Sample run :

Enter number of lines: 7

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