**Sections 2**

**Learning Objectives:**

* Understand Boolean expressions and conditional statements
* Learn to use if, elif and else statements

**Description:**You will become familiar with writing structured conditional statements using a text editor:

* Please complete the following assignments and submit by Saturday July 4 by 11:59PM:
  1. Write a statement that counts the number of space characters in a string. Recall that the space character is represented as ' '.
  2. Write a program that starts with an empty list and takes three inputs from the user to populate the list.
  3. The variables x and y refer to numbers. Write a code segment that prompts the user for an arithmetic operator and prints the value obtained by applying that operator to x and y.
  4. Write a program that accepts the lengths of three sides of a triangle as inputs. The program output should indicate whether or not the triangle is an equilateral  
     triangle (e.g. all three sides are equal) .
  5. The German mathematician Gottfried Leibniz developed the following method to approximate the value of pi :   p i/4  =  1  -  1/3  + 1/5  - 1/7 + . . .  
     Write a program that allows the user to specify the number of iterations used in this approximation and that displays the resulting value.

Please turn in your work for Week2 to this folder.