## IT 210 - Fundamentals of Programming - Lab 7

This program requires you to work in a group of two or three write Python code that implements problem R8\_20, parts a, b, and c in your text on page 437. That problem is restated here:

Given three sets, Set1, Set2, and Set3, write Python statements to perform the following actions:

- a. Create a new set of all elements that are in set1 or set2, but not both.
- b. Create a new set of all elements that are in only one of the three sets set1, set2, and set3.
- c. Create a new set of all elements that are in exactly two of the sets Set1, Set2, and Set3.

## Implementation comments:

- You may find it useful to define a function whose definition starts: def makeStr(collection): that returns a string containing all the elements of a collection (set, list, tuple, etc).
- I will test your program using only strings of characters
- · The outputs should contain the characters in sorted order.
- For part b first find the elements that are only found in Set1, in Set2, in Set3, then combine these
  results
- For part c you will need to do three pair-wise intersections, an intersection of all three and then use union and difference to compute the resulting set.
- Discuss how to approach each of the parts with your team members.

A sample run of your program should look like this:

```
Enter a string to be used as set1: abcdefg
Enter a string to be used as set2: cdefghijkl
Enter a string to be used as set3: fghijklmnop
Part A: abhijkl
Part B: abmnop
Part C: cdehijkl
```

Each member of the group must make a submission to D2L with your own name as a comment on line 1 and the name or names of other group members on the next line. If you do the lab solo, I will deduct 20 points. Submit a copy of the lab to the Lab 7 D2L dropbox not later than 11:59 pm Friday evening. Name your file Lab07.py.