**CMPSC 462 – Assignment-2** (30 points)

**Due date: 9/2/2022**

**Note:** attach screenshots of your program and results under each programming exercises. Please make sure that the screenshot is readable. Don’t attach a very small screenshot image.

1. Create a Python program that asks the user to enter two sets of comma-separated values. Use the string split() method to parse the line and then use the set() function to covert the lists to sets. Demonstrate set theory for the two sets by displaying the two sets and their relationship to each other as subset, superset, union, intersection, and difference. 10 points
2. How can the last element of a set be deleted? Justify your answer? 5 points
3. Answer the following? 5 points
4. Is a set a subset of itself? Explain?

# What happens if you pass a dictionary to a set constructor? for example: set(dictionary1). Explain?

1. What are the differences between a set and a frozen set? Show how you can create a frozen set? 5 points
2. Write a Python program to check if two given sets have elements in common, remove those elements and return the set with unique elements? 5 points

**Deliverables:**

1. This assignment word file - program and Outputs with appropriate screenshots