

## **CS401 Lab 8**

**This lab is to be completed individually.**

### **What to do?**

#### **Part 1**

Implement LinkedList

1. Implementing **Sorted LinkedList** as such it inherits all the public and protected methods from your LinkedList.
2. Add employee objects from "emp.txt" file.
3. Sort elements based on ID. Print list after sorting.
5. Delete one element based on id. Print elements after deleting.

Your implementation should include the following methods:

1. Add
2. Remove
3. Contains

#### **Part 2**

Implement **circular linked list**:

1. Insert first 8 elements from emp.txt file.
2. Display elements after inserting.
3. Delete one element by searching through id.

#### **Part 3**

Implement your own **Doubly LinkedList** with the following methods:

1. Add
2. Remove
3. Contains

### **What to turn in?**

1. Source code
2. Your program's outputs in a PDF file
3. JAR file.

4. README file to demonstrate how your program works. Include a command to determine how to run the JAR file.

Please submit on Blackboard before the assigned due date