

CS401 Lab 8

This lab is to be completed individually.

This lab is for you to understand Queue data structure implementation.

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.(Can use the same emp.txt file from previous labs)
3. Sort elements based on ID.
4. Print the list after sorting.

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 the 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:

Add
Remove
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