# LAB-IV

Date: **Aug 22, 2024**.

You need to upload your solutions of Q1 and Q2 (Q3 is optional) to canvas portal before 05:35pm on Aug 22, 2024.

1. Write a program to implement a STACK using (a) Arrays and (b) Linked lists.

2. Write a program to implement a QUEUE using (a) Arrays and (b) Linked lists.

3. A priority queue is a data structure in which each element is assigned a priority. A priority queue can be thought of as a modified queue in which when an element has to be removed from the queue, the one with the highest-priority (minimum or maximum value items) is retrieved first.

   Write a program to implement a MIN-PRIORITY-QUEUE using (a) Arrays and (b) Linked lists.

4. Hacker rank practice test can be accessed using the following link:

   https://www.hackerrank.com/csl202-practice