

## **CSC3202 Data Structures and Algorithms**

### **ASSIGNMENT 2**

#### **Application using Linked List**

**DATE:** 9 November 2022

#### **INSTRUCTIONS:**

1. Submit the program listing via PutraBLAST.
2. Submission dateline is 2 December 2022.
3. Copying or other forms of cheating is forbidden. The faculty has very strong rules about this and the standard penalty of first offence is to award 0 marks to all parties concerned.
4. Use Java to implement your solution.

#### **QUESTION:**

Write a simple airline ticket reservation program using linked list. The program should display a menu with the following options:

- Reserve a ticket
- Cancel a reservation
- Check whether a ticket is reserves for a particular person
- Display the passengers

In a simpler version of the program, assume the tickets are reserved for only one flight. In a more complete version, place no limit on the number of flights. Create a linked list of flights with each node including a reference to a linked list of passengers.