

Write a simple JAVA airline ticket reservation program that will use the provided MyLinkedList Class. Assume that tickets are reserved for only one flight.

The program should display a menu with the following options:

1. reserve a ticket
2. cancel a reservation
3. check whether a ticket is reserved for a particular person
4. display the passengers
5. EXIT.

- Write a class called Passenger with name, ID number and contact number as fields.
 - Write a class called Flight with flightnumber and a linked list of passengers as instance fields.
- The following methods should be implemented in the Flight class:

- “**reserveTicket()**” to add passenger information to linked list. (5 marks)
 - Tickets are reserved using name, ID number and contact number.
- “**cancelTicket()**” to cancel a ticket reservation for a particular passenger. (5 marks)
 - Tickets are cancelled using name, ID number and contact number.
- “**checkTicket()**” function to check ticket reservation for a particular passenger (5 marks)
 - Design and write a method **contains()** for the MyLinkedList class to determine if a parameter object is present in the linked list.
 - Use the contains() method to check the ticket reservation using name, ID number and contact number.
- “**displayPassengers()**” method to display details of all passengers present in the linked list. (5 marks)

Challenge!(Optional) In an extended version, place no limit on the number of flights. Create a linked list of flights with each node including a pointer to a linked list of passengers.

Part 2 will add another option to the menu.