OOPS Lab Exercise 8 14/10/24 ArrayLists and LinkedLists

- Q.1 Write Java programs for the following
 - **a.** Define a class FlightDest which contains the flightNoand destination (both of type strings and accessible only within the class FlightDest).

Define another class FlightInfo, which holds a member flightDestList(of type ArrayListto hold a list of FlightDestobjects).

Provide the class FlightInfo, with member functions having the following signatures. publicFlightInfo();//initialize the FlightInfoclass

public void addFlightDestPair(String fNo, String dest); //adds the pair (fNo, dest) to the flightDestList

public ArrayList<String>getFlightsDest(String dest); //returns a list of flightNos for a given destination dest.

Provide only the class FlightDestinationTester containing the main() method to test the usage of the FlightInfoclass.

Q.2 Implement the following:

Book	
-ISBN_no: long	
-name: String	
-Edition: int	
-Author: String	
-Publisher: String	
-Status: int	
+check_Status()	
+change_Status()	
+display()	
Note:	
1. – indicates private access specifier, + indicates public access specifier	
2. +check Status(): a method to find status of the book.	

Status can be: Available (0) Issued (1) Reserved (2) 3. +change Status(int): a method to change the status of the book. 4. +display(): a method to print the details of the book. Create a class BookTester to include main method. Create 2 objects of Book in this main method and call methods to change and check status. Now add two more book objects, one at the first location and the next in the last location. Use LinkedList to manipulate the objects. 1 \$vi BookTester.java class Book { } public class BookTester { public static void main(String[] args) { // Read Input from user. and test the Book class. } \$javac BookTester.java

\$java BookTester