

## 16/3/23 lab QP

- 1) write a program to create a array list to store set of dates.  
Perform the following operations on it:
  - a. Add dates into array list
  - b. Return the index of the recent date.
  - c. Check whether the given date is present or not
  - d. Remove the last occurrence of the duplicate dates
  - e. Set the new date at the first occurrence of the given date
- 2) Define a super class called Book that has data members: title(String), authorName (String) and price (double), constructor with arguments, getTitle() that returns the Book's title, getAuthor() that returns the Book's author name

Define a subclass called LibraryMember with members: name (String), array of mybooks and membershipid (int), getName() that returns the name, constructor

with arguments(initialize the list to be empty), void borrow(Book b[]) that adds the Book to the

list of books of the LibraryMember, void return(Book b[]) that deletes the Book from the list of

books of the LibraryMember and toString() that displays the name and membershipid. Include the method getBooks() to class LibraryMember that will return the array of books taken by the LibraryMember . Include the data member bookNo to class Book. Include the method bool search(LibraryMember m, int n) that returns true or false whether the LibraryMember has borrowed the Book with BookNo(given by n)