

Laboratory and spot exercises

Class and String methods

Lab no:4

Date :25.8.23

Make the following modifications: (10 marks)

1. In class Book:
 - a. String author[] – an array of String which will hold maximum of three author names(2)
2. In class Customer :
 - a. Purchase(Book) – which adds Book to the arraylist only if the name of the doesn't exist(2)
 - b. Include method: constructEmailID()from the Customer's firstName, lastName and custID suchthat ID is firstName followedby first four letter of lastName and custID @shop.com (custID is always three digit number) (3)
3. In class Student:
 - a. Include method: setEmailID()from the Student's Name and rollNo such that ID is Name followed by rollno @annauniv.edu to intialise the data field emailID. (3)

Spot Question(5 marks)

4. Write a method that checks whether two words are anagrams. Two words are anagrams if they contain the same letters in any order. For example, silent and listen are anagrams. The header of the method is: **public static boolean isAnagram(String s1, String s2)**
Write a test program that prompts the user to enter two strings and, if they are anagrams, displays two strings are anagrams, and displays two strings are not anagrams if they are not anagrams.