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SSN COLLEGE OF ENGINEERING
Department of Computer Science & Engineering
UCS1313: Object Oriented Programming Using Java Lab
2019-2020 Odd – III Semester
Assignment – VII: String Operations in ArrayList, Doubly Linked List ADT implementation using LinkedList
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Objective:

1. To create an ArrayList and perform various string operations (without using Collections)

2. To implement doubly linked list (ADT) and perform various operations using Collections.

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1. Write a program to perform string operations using ArrayList. Write functions for the following:
Hint: Do not use the methods in ArrayList Collection.

a. Add 10 elements to the list.
b. Insert a string at a specific position.
c. Check whether the list contains a particular element and display its occurence.
d. List all string that starts with given letter/character.
e. List all string that contains the given substring.
f. Replace one string with another string.
g. Remove a specific element from the list.
h. Remove the duplicate element in the list.
i. Display the contents of list – this method can be used wherever required.

2. Using the LinkedList Collection framework, create a doubly linked list of Integers and perform the following:

a. Insert element on both sides.
b. Insert an element at a specific position.
c. Remove the elements on both sides.
d. To remove a specific element, check for the availability of the given element. If present, remove else display appropriate message.
e. Copy the original list before sorting.
e. Sort the elements and display the sorted elements. (use Algorithm)
f. Search for a specific element and return its position.
g. Display the elements in forward and reverse order (with and without Algorithms)
h. Find the sum and average of all the elements in the list.
i. Create a new linked list with elements starting from 3rd position in the original linked list.
j. Add the original linked list (e) and new linked list created above in (i) to a new linked list.

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