

Assignment – 13

1. What is the difference between ArrayList and Vector?
2. When to use ArrayList and When to use LinkedList?
3. Write Customer with custId,custMobile,custName . WAP to add elements to LinkedList which should accept Customer type objects only. Print all elements of LinkedList using -
 - a. Iterator
 - b. for loop
 - c. for each
6. There is ArrayList of string list1 { "sun" , "mon" ,"sun" , "tue" , "wed" , mon" } Create LinkedList list2 which contains non-unique elements from list1. So list2 will be {"sun" , "mon" }.
7. Sort LinkedList created in Q3 by custId in ascending order .
8. What will be output of following

```
public class Output {
    public static void main(String[] args) {
        List list1 = new LinkedList<>();
        list1.add("Me");
        list1.add("You");
        list1.add("He");
        list1.add("She");
        list1.add("It");
        List list2 = new LinkedList();
        list2.add("You");
        list1.retainAll(list2);
        for (String temp : list1)
            System.out.printf(temp + " ");
        System.out.println(); } }
```
9. What is difference between Comparator and Comparable?
10. Create ArrayList<String> and sort in descending order in different 3 ways.
11. Sort LinkedList in Q3 by custName in ascending order,if custNames are same then sort that objects further by custId in descending order.
12. Create Emp class with empId,empName,empSalary. Create 2 ArrayList<Emp> say list1 and list2. Make a LinkedList by joining both list1 and list.
 - a.Sort resultant LinkedList in descending order of salary and if salary is same then sort it by empName, if empNames are also same then sort it by empId