SBA 8 Adithya K Prabhu -211480

1. program to take input of two integer arrays from the user and to find the sum of both the arrays.

Sort the elements of the resultant array in ascending order using selection sort.

```
PS C:\Users\Lab\Desktop\java programs\day11\evening> javac SelectionSum
PS C:\Users\Lab\Desktop\java programs\day11\evening> java SelectionSum
Enter the number of elements in the array

4
Enter elements into the first array

2
4
5
3
Enter elements into the second array

8
9
2
1
Sum of both the arrays
10 13 7 4
The resultant array after sorting:
4 7 10 13
PS C:\Users\Lab\Desktop\java programs\day11\evening>
```

2. program to take input of Two arrays and store the similar elements into the resultant array. sort the resultant array in ascending order using bubble sort.

NOTE: there must at least be 6 similar elements. similar elements= the elements occurring in both the arrays.

## ADITHYA K PRABHU - 211480 SBA - 8

```
PS C:\Users\Lab\Desktop\java programs\day11\evening> java SimilarBubble.java
PS C:\Users\Lab\Desktop\java programs\day11\evening> java SimilarBubble
Enter the number of elements in the array
4
Enter elements into the first array
2
4
6
8
Enter elements into the second array
1
2
8
5
The resultant array before Sorting
[2, 8]
After sorting in Ascending order
[2, 8]
PS C:\Users\Lab\Desktop\java programs\day11\evening>
```

## ADITHYA K PRABHU - 211480 SBA - 8

3.program to take input two arrays and store the dissimilar elements into a resultant array. sort the resultant array in a descending order using bubble sort. dissimilar elements= the elements not occurring in both the arrays.(unique elements)

```
set.add(k);
}

System.out.println();

System.out.println("The resultant array before Sorting");
int len = set.size();
Integer[] result = new Integer[len];
result = set.toArray(result);
System.out.println(Arrays.toString(result));
for(i=0;i<len-1;i++)
{
    for(j=0;j<len-i-1;j++)
    {
        if(result[j]<result[j+1])
        {
            t=result[j];
            result[j]=result[j+1];
            result[j]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=result[j+1]=r
```

```
PS C:\Users\Lab\Desktop\java programs\day11\evening> java DissimilarBubble.java
PS C:\Users\Lab\Desktop\java programs\day11\evening> java DissimilarBubble
Enter the number of elements in the array

4
Enter elements into the first array
2
3
4
5
Enter elements into the second array
8
7
7
3
2
The resultant array before Sorting
[2, 3, 4, 5, 7, 8]
After sorting in Descending order
[8, 7, 5, 4, 3, 2]
PS C:\Users\Lab\Desktop\java programs\day11\evening>
```

## ADITHYA K PRABHU - 211480 SBA - 8

4. Implement Array List and add, remove, elements in the Array List and perform sorting of the elements.

```
import java.util.ArrayList;
import java.util.Iterator;

public class ArrayListIter{
  public static void main(String[] args)
  {
    ArrayList<String>list=new ArrayList<String>();
    list.add("Volkswagen");
    list.add("Toyota");
    list.add("Mercede;");
    list.add("Mercede;");
    list.add("Hyundai");
    System.out.println("The elements in ArrayLists are: "+list);
    list.remove(5);
    System.out.println("The contents of list after removing the element at 5th position is: "+list);

Iterator<String> it = list.iterator();

while(it.hasNext()) {
    System.out.println(it.next());
    }
    Collections.sort(list);
    System.out.println(list);
}
```

```
PS C:\Users\Lab\Desktop\java programs\day14> javac ArrayListIter.java
PS C:\Users\Lab\Desktop\java programs\day14> java ArrayListIter
The elements in ArrayLists are: [Volkswagen, Toyota, Audi, Mercedez, BMW, Hyundai]
The contents of list after removing the element at 5th position is: [Volkswagen, Toyota, Audi, Mercedez, BMW]
Volkswagen
Toyota
Audi
Mercedez
BMW
[Audi, BMW, Mercedez, Toyota, Volkswagen]
```

```
ADITHYA K PRABHU - 211480
SBA - 8
```

5. Implement LinkedList and add, remove, elements in the LinkedList and perform sorting of the elements.

```
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedList;

public class LinkedIter {
  public static void main(String[] args)
  {
    LinkedList<String>list=new LinkedList<String>();
    list.add("Red");
    list.add("Blue");
    list.add("Blue");
    list.add("Paris");
    System.out.println("Linkedlist: "+list);
    list.remove(2);
    System.out.println("Linkedlist after deletion: "+list);

    Iterator<String> it = list.iterator();

    while(it.hasNext()) {
        System.out.println(it.next());
        }
        Collections.sort(list);
        System.out.println(list);
}
```

```
PS C:\Users\Lab\Desktop\java programs\day14> javac LinkedIter.java
PS C:\Users\Lab\Desktop\java programs\day14> java LinkedIter
Linkedlist: [Red, Italy, Blue, London, Paris]
Linkedlist after deletion: [Red, Italy, London, Paris]
Red
Italy
London
Paris
[Italy, London, Paris, Red]
PS C:\Users\Lab\Desktop\java programs\day14>
```