**SORTING THE ELEMENT BASED ON FREQUENCY:** 12 -Aug-2022 **STATEMENT:** Need to write a program to sort the given array based on frequency of elements. **Input Format** 12 323242353751 **Output Format** 333322255471 \_\_\_\_\_\_ Sample Input 0 3476344 Sample Output 0 4443376 **Explanation 0** Highest frequency element will come first and next frequency element will come next and so on. Other elements will come in the same order which presents in the given array. \_\_\_\_\_\_ Sample Input 1 2532551 **Sample Output 1** 

5552231

```
PROGRAM:
*****
package HacerRankProblems;
import java.util.Map.Entry;
import java.util.*;
public class FrequencyBasedPrinting {
  public static void main(String[] args) {
    Scanner scan=new Scanner(System.in);
    ArrayList<Integer>al=new ArrayList<Integer>():
    System.out.println("Enter the size of array: ");
    int size=scan.nextInt():
    System.out.println("Enter the element one by one; ");
    for(int i=0;i<size;i++)</pre>
      al.add(scan.nextInt());
    LinkedHashMap<Integer,Integer>tm=new LinkedHashMap<Integer,Integer>();
    for(int x : al)
      if(tm.containsKey(x))
        tm.put(x, tm.get(x)+1);
      else
        tm.put(x, 1);
    System.out.println("Elements frequencies are: ");
    for(Entry<Integer, Integer> entry: tm.entrySet())
```

```
System.out.println(entry.getKey() +" - " +entry.getValue());
    ArrayList<Integer>se=new ArrayList<Integer>();
    System.out.println("Sorted format are: ");
    tm.entrySet()
     .stream()
      .sorted(Collections.reverseOrder(Map.Entry.comparingByValue()))
     .forEach(entry ->{
                 for(int i=0;i<entry.getValue();i++)</pre>
                   se.add(entry.getKey());
              });
    System.out.println("FrequencyBasedPrinting: "+se);
OUTPUT:
Enter the size of array:
Enter the element one by one;
1324233
Elements frequencies are:
3 - 3
Sorted format are:
FrequencyBasedPrinting: [3, 3, 3, 2, 2, 1, 4]
```