

```

1  import java.util.*;
2
3  public class Rotation {
4
5      public static void main(String[] args) {
6
7          Scanner sc = new Scanner(System.in);
8          System.out.println("Author:G.Sreekanth");
9          System.out.println("Enter the first string");
10         String input = sc.nextLine();
11
12         System.out.println("Enter the second string");
13         String rotation = sc.nextLine();
14
15         if (checkRotatation(input, rotation))
16             System.out.println(input + " and " + rotation
17                                 + " are rotation of each other");
18         } else {
19             System.out.println("they are not rotation");
20         }
21
22         sc.close();
23     }
24
25     public static boolean checkRotatation(String original, String rotation) {
26         if (original.length() != rotation.length())
27             return false;
28         }
29
30         String concatenated = original + original;
31
32         if (concatenated.indexOf(rotation) != -1)
33             return true;
34         }
35
36         return false;
37     }
38 }

```



```
Author:G.Sreekanth  
SAP ID:51834595  
Enter the first string:  
xyz  
Enter the second string:  
zxy  
xyz and zxy are rotation of each other  
  
Process finished.
```



```
← Bubble_Sort_String.java Saved
1 import java.util.Arrays;
2 import java.util.Scanner;
3
4 class Bubble_Sort_String
5 {
6     public static void swap(int[] arr, int a
7     {
8         int temp = arr[a];
9         arr[a] = arr[b];
10        arr[b] = temp;
11    }
12
13    public static void bubbleSort(int[] arr,
14    {
15        for (int a = 0; a < x - 1; a++) {
16            if (arr[a] > arr[a + 1]) {
17                swap(arr, a, a + 1);
18            }
19        }
20        if (x - 1 > 1) {
21            bubbleSort(arr, x - 1);
22        }
23    }
24
25    public static void main(String[] args)
26    {
27
28        Scanner sc=new Scanner(System.in);
29        System.out.println("enter the length
30        int len= sc.nextInt();
31        int[] arr = new int[len];
32        System.out.println("enter the "+len+"
33        for(int i=0;i<len;i++)
34        {
35            arr[i]=sc.nextInt();
36        }
37
38        bubbleSort(arr, arr.length);
39
40        System.out.println("Author:G.Sre
```



enter the length of the array

5

enter the 5 elements

1

4

5

8

3

Author:G.Sreekanth

SAP ID:51834595

[1, 3, 4, 5, 8]

Process finished.

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