

```

1  import java.util.*;
2
3  public class Main {
4
5      public static void main(String[] args) throws Exception {
6
7          Scanner sc = new Scanner(System.in);
8          System.out.println("Name:Vyshnavisrija");
9          System.out.println("Sap id:51834503");
10         System.out.println("Enter the first string:");
11         String input = sc.nextLine();
12
13         System.out.println("Enter the second string:");
14         String rotation = sc.nextLine();
15
16         if (checkRotatation(input, rotation)) {
17             System.out.println(input + " and " + rotation
18                 + " are rotation of each other");
19         } else {
20             System.out.println("they are not rotation of
21             each other");
22
23             sc.close();
24         }
25
26         public static boolean checkRotatation(String original, String rotation) {
27             if (original.length() != rotation.length()) {
28                 return false;
29             }
30
31             String concatenated = original + original;
32
33             if (concatenated.indexOf(rotation) != -1) {
34                 return true;
35             }
36
37             return false;
38         }
39     }

```

```
Name:Vyshnavisrija
Sap id:51834503
Enter the first string:
xyz
Enter the second string:
zxy
xyz and zxy are rotation of each other

Process finished.
```

```

1 import java.util.Arrays;
2
3 class Main
4 {
5     public static void swap(int[] arr, int a, int b)
6     {
7         int temp = arr[a];
8         arr[a] = arr[b];
9         arr[b] = temp;
10    }
11
12    public static void bubbleSort(int[] arr, int x)
13    {
14        for (int a = 0; a < x - 1; a++) {
15            if (arr[a] > arr[a + 1]) {
16                swap(arr, a, a + 1);
17            }
18        }
19        if (x - 1 > 1) {
20            bubbleSort(arr, x - 1);
21        }
22    }
23
24    public static void main(String[] args)
25    {
26        int[] arr = { 10,4,-4,17,3,20,1 };
27
28        bubbleSort(arr, arr.length);
29
30        System.out.println("Name:Vyshnavisrija");
31        System.out.println ("Sap id:51834503");
32        System.out.println(Arrays.toString(arr));
33    }
34 }

```

```
Name:Vyshnavisrija  
Sap id:51834503  
[-4, 1, 3, 4, 10, 17, 20]  
  
Process finished.
```