

```
1 import java.util.*;
2
3 public class Main {
4
5     public static void main(String[] args) throws Exce
6
7     Scanner sc = new Scanner(System.in);
8     System.out.println("Author:G.sravan\nSAP ID:518");
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 of
20    }
21
22    sc.close();
23}
24
25 public static boolean checkRotatation(String origi
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}
```

X Terminal



Author:G.sravan

SAP ID:51834566

Enter the first string:

xyz

Enter the second string:

yxz

they are not rotation of another

Process finished.

```
1 class Sravan{  
2     public static void main (String args[]){  
3         System.out.println("\nname:G.sravan\nsap id:5183  
4             for(int i=0;i<=5;i++){  
5                 for(int j=0;j<i;j++){  
6                     if(j==0 || j==i-1){  
7                         System.out.print("1");  
8                     }  
9                     else if(i==5&&j==2){  
10                         System.out.print("@");  
11                     }  
12                     else{  
13                         System.out.print("!");  
14                     }  
15                 }  
16                 System.out.println();  
17             }  
18         }  
19     }
```

X Terminal



```
name:G.sravan  
sap id:51834566
```

```
1  
11  
1!1  
1!!1  
1!@!1
```

```
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 = { 3, 5, 8, 4, 1, 9, -2 };
27
28        bubbleSort(arr, arr.length);
29
30        System.out.println("Author:G.sravan\nSAP ID:");
31        System.out.println(Arrays.toString(arr));
32    }
33 }
```

X Terminal



```
Author:G.sravan
SAP ID:51834566
[-2, 1, 3, 4, 5, 8, 9]
```

```
Process finished.
```