```java
import java.util.*;

public class Main {

  public static void main(String[] args) throws Exc

    Scanner sc = new Scanner(System.in);
    System.out.println("Author:harsha\nSAP ID:51834
    System.out.println("Enter the first string:");
    String input = sc.nextLine();

    System.out.println("Enter the second string:");
    String rotation = sc.nextLine();

    if (checkRotatation(input, rotation)) {
      System.out.println(input + " and " + rotatior
          + " are rotation of each other");
    } else {
      System.out.println("they are not rotation of
    }

    sc.close();
  }

  public static boolean checkRotatation(String orig
    if (original.length() != rotation.length()) {
      return false;
    }

    String concatenated = original + original;

    if (concatenated.indexOf(rotation) != -1) {
      return true;
    }

    return false;
  }
}
```

X Terminal 🗗

```
Author:harsha
SAP ID:51834755
Enter the first string:
pre
Enter the second string:
join
they are not rotation of another

Process finished.
```

```java
1
2  mport java.util.Arrays;
3
4  lass Main
5
6     public static void swap(int[] arr, int a, int b)
7     {
8         int temp = arr[a];
9         arr[a] = arr[b];
10        arr[b] = temp;
11    }
12
13    public static void bubbleSort(int[] arr, int x)
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        int[] arr = { 3, 5, 8, 4, 1, 9, -2 };
28
29        bubbleSort(arr, arr.length);
30
31        System.out.println("Author:harsha\nSAP ID:5
32        System.out.println(Arrays.toString(arr));
33    }
34
```

✕ Terminal

```
Author:harsha
SAP ID:51834755
[-2, 1, 3, 4, 5, 8, 9]

Process finished.
```