

```
1 //Question 2
2 import java.util.*;
3 public class Main {
4     public static void main(String[] args) throws Exception {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Author:P.laasya");
7         System.out.println("Enter the first string:");
8         String input = sc.nextLine();
9         System.out.println("Enter the second string:");
10        String rotation = sc.nextLine();
```

```
11     if (checkRotatation(input, rotation)) {  
12         System.out.println(input + " and " + rotation  
13             + " are rotation of each other");  
14     } else {  
15         System.out.println("they are not rotation of another");  
16     }  
17     sc.close();  
18 }  
19  
20 public static boolean checkRotatation(String original, String rotation) {
```

```
21     if (original.length() != rotation.length()) {
22         return false;
23     }
24     String concatenated = original + original;
25
26     if (concatenated.indexOf(rotation) != -1) {
27         return true;
28     }
29     return false;
30 }
31 }
32
```

```
Author:P.laasya
Enter the first string:
XYZ
Enter the second string:
ZXY
XYZ and ZXY are rotation of each other

Process finished.
```

```
Author:P.laasya
Enter the first string:
XYZ
Enter the second string:
YXZ
they are not rotation of another

Process finished.
```

```
1 //Question 5
2 import java.util.Arrays;
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    public static void bubbleSort(int[] arr, int x)
12    {
13        for (int a = 0; a < x - 1; a++) {
14            if (arr[a] > arr[a + 1]) {
15                swap(arr, a, a + 1);
16            }
17        }
18    }
19 }
```

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16     }
17 }
18 if (x - 1 > 1) {
19     bubbleSort(arr, x - 1);
20 }
21 }
22 public static void main(String[] args)
23 {
24     int[] arr = { 5,3,2,8,-1,6,9 };
25     bubbleSort(arr, arr.length);
26     System.out.println("Author: P.laasya");
27     System.out.println(Arrays.toString(arr));
28 }
29 }

```

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Author: P.laasya

[-1, 2, 3, 5, 6, 8, 9]

Process finished.