

2.

```
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("Author:P JaganMohan\nSAP ID:51834796");
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 another");
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 }
```

× Terminal

```
Author:P JaganMohan
SAP ID:51834796
Enter the first string:
jagan
Enter the second string:
njaga
jagan and njaga are rotation of each other

Process finished.
```

5.

```
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         bubbleSort(arr, arr.length);
28         System.out.println("Author: P. Jaganmohan\nSAP ID: 51834796\n[-2, 1, 3, 4, 5, 8, 9]");
29     }
30 }
```

× Terminal



```
Author: P. Jaganmohan
SAP ID: 51834796
[-2, 1, 3, 4, 5, 8, 9]
```

Process finished.