```java
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:Nancy
   Florence\nSAP ID:51834501");
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         }
```

OUTPUT

Author:Nancy Florence
SAP ID:51834501
Enter the first string:
Enter the second string:
they are not rotation of another

```java
import java.util.Arrays;

class Main
{
  public static void swap(int[] arr, int a, int b)
  {
    int temp = arr[a];
    arr[a] = arr[b];
    arr[b] = temp;
  }

  public static void bubbleSort(int[] arr, int x)
  {
    for (int a = 0; a < x - 1; a++) {
      if (arr[a] > arr[a + 1]) {
        swap(arr, a, a + 1);
      }
    }
    if (x - 1 > 1) {
      bubbleSort(arr, x - 1);
    }
  }

  public static void main(String[] args)
  {
    int[] arr = { 3, 5, 8, 4, 1, 9, -2 };

    bubbleSort(arr, arr.length);

    System.out.println("Author:Nancy Florence\nSAP ID:51834501");
    System.out.println(Arrays.toString(arr));
  }
}
```

TAB   {   }   ;   "   =   RUN ▶

```java
import java.util.Arrays;

class Main
{
  public static void swap(int[] arr, int a, int b)
  {
    int temp = arr[a];
    arr[a] = arr[b];
    arr[b] = temp;
  }

  public static void bubbleSort(int[] arr, int x)
  {
    for (int a = 0; a < x - 1; a++) {
      if (arr[a] > arr[a + 1]) {
        swap(arr, a, a + 1);
      }
    }
    if (x - 1 > 1) {
      bubbleSort(arr, x - 1);
    }
  }

  public static void main(String[] args)
  {
    int[] arr = { 3, 5, 8, 4, 1, 9, -2 };

    bubbleSort(arr, arr.length);

    System.out.println("Author:Nancy Florence\nSAP ID:51834501");
    System.out.println(Arrays.toString(arr));
  }
}
```

OUTPUT

```
Author:Nancy Florence
SAP ID:51834501
[-2, 1, 3, 4, 5, 8, 9]
```

```java
class Demo{
  public static void main (String args[]){
    System.out.println("\nname:Nancy
Florence\nsap id:51834501");
      for(int i=0;i<=5;i++){
        for(int j=0;j<i;j++){
          if(j==0||j==i-1){
            System.out.print("1");
          }
          else if(i==5&&j==2){
            System.out.print("@");
          }
          else{
            System.out.print("!");
          }
        }
      System.out.println();
    }
  }
}
```

TAB   {   }   ;   "   =   RUN ▶

```
name:Nancy Florence
sap id:51834501

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

```java
1  public class StringtoInt {
2
3
4      public static void main (String args[])
5      {
6          String  convertingString="123456";
7          System.out.println("String Before
   Conversion :  "+ convertingString);
8          int output=
   stringToint( convertingString );
9          System.out.println("");
10         System.out.println("");
11         System.out.println("int value as output
   "+ output);
12         System.out.println("");
13      }
14
15
16      public static int stringToint( String str )
   {
17          int i = 0, number = 0;
18          boolean isNegative = false;
19          int len = str.length();
20          if( str.charAt(0) == '-' ){
21              isNegative = true;
22              i = 1;
23          }
24          while( i < len ){
25              number *= 10;
26              number += ( str.charAt(i++) -
   '0' );
27          }
28          if( isNegative )
29          number = -number;
30          return number;
```

OUTPUT

String Before Conversion :   123456

int value as output 123456