```java
1   import java.util.*;
2   class StringRotation
3   {
4     static boolean areRotations(String str1, Strin
5     {
6       return (str1.length() == str2.length()) &&
7         ((str1 + str1).indexOf(str2) != -1);
8     }
9     public static void main (String[] args) {
10      Scanner s = new Scanner(System.in);
11      System.out.println("Author : J Sri Sai Mano
12      System.out.println("SAP ID : 51834596");
13    System.out.println("enter the first string:")
14      String str1 = s.nextLine();
15      System.out.println("enter the second string
16      String str2 = s.nextLine();
17      System.out.println("Output: ");
18      if (areRotations(str1, str2))
19        System.out.println("True");
20      else
21        System.out.printf("False");
22    }
23  }
```

```
X  Terminal                                    ⧉

Author : J Sri Sai Manoj
SAP ID : 51834596
enter the first string:
xyz
enter the second string:
zxy
Output:
True

Process finished.
|
```

```java
class Pattern
  {
    public static void main(String args[])
    {
     System.out.println("Author : J Sri Sai Manoj
      System.out.println("SAP ID : 51834596");
       for(int i=1;i<=5;i++)
       {
          for(int j=1;j<=i;j++)
          {
            if(i==5 && j==3)
            {
               System.out.print("@");
            }
            else if(j==1 || j==i)
            {
               System.out.print("1");
            }
            else
            {
               System.out.print("!");
            }
          }
          System.out.println();
       }
    }
  }
```

**Terminal**

```
Author : J Sri Sai Manoj
SAP ID : 51834596
1
11
1!1
1!!1
1!@!1

Process finished.
```

```java
import java.util.Scanner;
public class BubbleSort
{
  public static void main(String []args)
  {
    System.out.println("Author: J Sri Sai Manoj"
    System.out.println("SAP ID:51834596");
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter Size :");
    int n = sc.nextInt();
    sc.nextLine();
    String[] str = new String[n];
    System.out.println("enter "+n+" elements : "
    for (int i=0;i<n;i++)
    {
      str[i]=sc.nextLine();
    }
    for (int i=0;i<n;i++)
    {
      for (int j=i+1;j<n;j++)
      {
        if (str[i].compareTo(str[j])>0)
        {
          String temp = str[j];
          str[j] = str[i];
          str[i] = temp;
        }
      }
    }
    System.out.println("Sorted string : ");
    for (int i=0;i<n;i++)
    {
      System.out.println(str[i]);
    }
  }
}
```

```
Author: J Sri Sai Manoj
SAP ID:51834596
Enter Size :
6
enter 6 elements :
manoj
muneer
suresh
padma sai
hemanth
vardhan
Sorted string :
hemanth
manoj
muneer
padma sai
suresh
vardhan

Process finished.
```

```java
import java.util.Scanner;
import java.util.InputMismatchException;
class Earthquake
{
  public float measurement;
  void description(float measure) throws Excepti
  {
    this.measurement=measure;
    if(measurement>=0 && measurement<2)
    {
      System.out.println("not felt");
    }
    else if(measurement>=2 && measurement<3)
    {
      System.out.println("not felt but, recorded
    }
    else if(measurement>=3 && measurement<4)
    {
      System.out.println("shaking of indoor item
    }
    else if(measurement>=4 && measurement<5)
    {
      System.out.println("Walls crack");
    }
    else if(measurement>=5 && measurement<6)
    {
      System.out.println("furniture moves");
    }
    else if(measurement>=6 && measurement<7)
    {
      System.out.println("buildings will collaps
    }
    else if(measurement>=7 && measurement<8)
    {
      System.out.println("buildings collapsed");
    }
    else if(measurement>=8 && measurement<=12)
    {
      System.out.println("Total destruction of b
    }
    else if(measurement>12)
    {
      throw new Exception("Application crashed")
    }
    else
    {
      throw new Exception("You cannot enter nega
    }
  }
}
class UserInput
{
  public static void main(String args[])
  {
    Earthquake e=new Earthquake();
    Scanner sc=new Scanner(System.in);
    System.out.println("Author : J Sri Sai Mano
    System.out.println("SAP ID : 51834596");
    System.out.println("Enter the measurement :
    try
    {
      int measure=sc.nextInt();
      try
      {
        e.description(measure);
      }
      catch(Exception ex)
      {
        System.out.println(ex.getMessage());
      }
    }
    catch(InputMismatchException i)
    {
      System.out.println("You cannot enter othe
    }
  }
}
```

```
✕  Terminal                               ⧉

Author : J Sri Sai Manoj
SAP ID : 51834596
Enter the measurement :
5
furniture moves


Process finished.
▌
```

```java
1  import java.util.Scanner;
2  class Conversion
3  {
4  static int replaceDigit(int x, int a)
5  {
6    int result = 0, multiply = 1;
7    while (x % 10 > 0)
8    {
9      int remainder = x % 10;
10     if (remainder != a)
11     {
12       result = result + remainder * multiply;
13       multiply *= 10;
14     }
15      x = x / 10;
16   }
17   return result;
18 }
19 public static void main(String[] args)
20 {
21   System.out.println("Author: J Sri Sai Manoj");
22   System.out.println("SAP ID: 51834596");
23   Scanner sc=new Scanner(System.in);
24   System.out.print("Enter your number : ");
25   int x = sc.nextInt();
26   System.out.print("Enter number to be removed :
27   int a = sc.nextInt();
28   System.out.println(replaceDigit(x, a));
29 }
30 }
```

✕ Terminal

```
Author: J Sri Sai Manoj
SAP ID: 51834596
Enter your number : 1347232
Enter number to be removed : 2
13473

Process finished.
```