```java
//1) Java program to display the precautions and level danger based on earthquick magnitude.
import java.util.Scanner;
public class Main{
    public static void main(String args[]){
        Scanner reader = new Scanner(System.in);
        System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549.");
        System.out.print("Enter the magnitude of earth quick: ");
        int measurement = reader.nextInt();
        while(measurement<12){
            if(measurement>=0&&measurement<=2){
                System.out.println("Effects: Not felt by people.\nPrecaustion: Please find out a safe place."
                System.out.print("Please enter current magnitude: ");
                measurement = reader.nextInt();
            }
            else if(measurement>=3&&measurement<=5){
                System.out.println("Effects: Ceiling crashes.\nPrecaustion: Come out of the building.");
                System.out.print("Please enter current magnitude: ");
                measurement = reader.nextInt();
            }
            else if(measurement>=6&&measurement<=9){
                System.out.println("Effects: Total destruction of buildings, roads and briges.\nPrecaustion:
                System.out.print("Please enter current magnitude: ");
                measurement = reader.nextInt();
            }
            else{
                System.out.println("Enter only positive measurement.");
                System.out.print("Please enter current magnitude: ");
                measurement = reader.nextInt();
            }

        }
        if (measurement>=12){
            System.out.println("Application crashed.");
        }
    }
}
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549.
Enter the magnitude of earth quick: 2
Effects: Not felt by people.
Precaustion: Please find out a safe place.
Please enter current magnitude: 9
Effects: Total destruction of buildings, roads and briges.
Precaustion: Use your helicopter to escape.
Please enter current magnitude: 12
Application crashed.


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
// Java program to check if two given strings are rotations of each other
import java.util.Scanner;
class Main
{

    /* Function checks if passed strings (str1 and str2)
    are rotations of each other */
    static boolean areRotations(String str1, String str2)
    {

        // There lengths must be same and str2 must be
        // a substring of str1 concatenated with str1.
        return (str1.length() == str2.length()) &&
            ((str1 + str1).indexOf(str2) != -1);
    }


    // Driver method
    public static void main (String[] args)
    {

        Scanner reader = new Scanner(System.in);
        System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549.");
        System.out.println("Enter the first string: ");
        String str1 = reader.nextLine();
        System.out.println("Enter the second string: ");
        String str2 = reader.nextLine();
        if (areRotations(str1, str2))
            System.out.println(true);
        else
            System.out.print(false);

    }
}
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549.
Enter the first string:
XYZ
Enter the second string:
ZXY
true



...Program finished with exit code 0
Press ENTER to exit console.
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549.
Enter the first string:
XYZ
Enter the second string:
YXZ
false

...Program finished with exit code 0
Press ENTER to exit console.
```

```java
public class Main {
    public static void main(String []args) {
        String str[] = { "Tharun", "Raj", "Likith", "Prabhakar", "Panther"};
        String temp;
        System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549.");
        System.out.println("Strings in sorted order:");
        for (int j = 0; j < str.length; j++) {
            for (int i = j + 1; i < str.length; i++) {
                // comparing adjacent strings
                if (str[i].compareTo(str[j]) < 0) {
                    temp = str[j];
                    str[j] = str[i];
                    str[i] = temp;
                }
            }
            System.out.println(str[j]);
        }
    }
}
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549.
Strings in sorted order:
Likith
Panther
Prabhakar
Raj
Tharun

...Program finished with exit code 0
Press ENTER to exit console.
```