

```

1 import java.util.Scanner;
2 import java.util.InputMismatchException;
3 class Earthquake
4 {
5     public float measurement;
6     void description(float measure) throws
Exception
7     {
8         this.measurement=measure;
9         if(measurement>=0 && measurement<2)
10        {
11            System.out.println("Micro earthquake,
not felt");
12        }
13        else if(measurement>=2 &&
measurement<3)
14        {
15            System.out.println("Generally not
felt, but recorded");
16        }
17        else if(measurement>=3 &&
measurement<4)
18        {
19            System.out.println("Noticeable
shaking of indoor items, rattling noises.
\nSignificant noises unlikely.");
20        }
21        else if(measurement>=4 &&
measurement<5)
22        {
23            System.out.println("Walls crack");
24        }
25        else if(measurement>=5 &&
measurement<6)
26        {
27            System.out.println("Furnitures
move");
28        }
29        else if(measurement>=6 &&
measurement<7)
30        {
31            System.out.println("Some buildings
collapse");
32        }
33        else if(measurement>=7 &&
measurement<8)

```

```

29     else if(measurement>=6 &&
measurement<7)
30     {
31         System.out.println("Some buildings
collapse");
32     }
33     else if(measurement>=7 &&
measurement<8)
34     {
35         System.out.println("Many buildings
collapsed");
36     }
37     else if(measurement>=8 &&
measurement<=12)
38     {
39         System.out.println("Total destruction
of buildings, roads and bridges");
40     }
41     else if(measurement>12)
42     {
43         throw new Exception("Application
crashed");
44     }
45     else
46     {
47         throw new Exception("You cannot enter
negative measurement");
48     }
49 }
50 }
51 class UserInput
52 {
53     public static void main(String args[])
54     {
55         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
56         Earthquake e=new Earthquake();
57         Scanner sc=new Scanner(System.in);
58         System.out.println("Enter the
measurement : ");
59         try
60         {
61             int measure=sc.nextInt();
62             try
63             {
64                 e.description(measure);

```

```

47         throw new Exception("You cannot enter |
negative measurement");
48     }
49 }
50 }
51 class UserInput
52 {
53     public static void main(String args[])
54     {
55         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
56         Earthquake e=new Earthquake();
57         Scanner sc=new Scanner(System.in);
58         System.out.println("Enter the
measurement : ");
59         try
60         {
61             int measure=sc.nextInt();
62             try
63             {
64                 e.description(measure);
65             }
66             catch(Exception ex)
67             {
68
69                 System.out.println(ex.getMessage());
70             }
71             catch(InputMismatchException i)
72             {
73                 System.out.println("You cannot enter
other than float values");
74             }
75             System.out.println("Safety measures to
be followed :");
76             System.out.println("Check yourself and
others for injuries. ...\nCheck water, gas,
and electric lines for damage. ...\nTurn on
the radio. ...\nStay out of damaged
buildings.\nBe careful around broken glass
and debris. ...\nBe careful of chimneys
(they may fall on you).\nStay away from
beaches. ...\nStay away from damaged areas.
");
77         }
78     }

```





Name :V. Jahnavi

SAP ID:51834788

Enter the measurement :

13

Application crashed

Safety measures to be followed :

Check yourself and others for injuries. ...

Check water, gas, and electric lines for da

Turn on the radio. ...

Stay out of damaged buildings.

Be careful around broken glass and debris.

Be careful of chimneys (they may fall on yo

Stay away from beaches. ...

Stay away from damaged areas.

Process finished.



Name :V. Jahnavi

SAP ID:51834788

Enter the measurement :

10

Total destruction of buildings, roads and b

Safety measures to be followed :

Check yourself and others for injuries. ...

Check water, gas, and electric lines for da

Turn on the radio. ...

Stay out of damaged buildings.

Be careful around broken glass and debris.

Be careful of chimneys (they may fall on yo

Stay away from beaches. ...

Stay away from damaged areas.

Process finished.



```

1  import java.util.Scanner;
2  class StringRotations
3  {
4      public static void main(String[] args)
5      {
6          System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
7          Scanner sc=new Scanner(System.in);
8          System.out.println("Enter First String :
");
9          String s1=sc.nextLine(); /*Taking input
of first string from user*/
10         System.out.println("Enter Second
String : ");
11         String s2=sc.nextLine(); /*Taking input
of second string from user*/
12         System.out.println(rotation(s1,s2));
13     }
14     static boolean rotation(String s1,String
s2)
15     {
16         boolean result=false;
17         for(int i=0;i<s2.length();i++)
18         {
19             if(s1.equals(s2)) /*Checking if
both the strings are equal*/
20             {
21                 result=true;
22                 break;
23             }
24             else
25             {
26
27                 s2=s2.substring(1)+s2.substring(0,1); /*In
every iteration bringing the first letter to
last position*/
28             }
29         }
30         return result;
31     }

```



Name :V. Jahnavi

SAP ID:51834788

Enter First String :

XYZ

Enter Second String :

ZYX

false

Process finished.





Name :V. Jahnavi

SAP ID:51834788

Enter First String :

XYZ

Enter Second String :

YZX

true

Process finished.





```
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("Name :V. Jahnavi\nSAP
ID:51834788");
22        Scanner sc=new Scanner(System.in);
23        System.out.print("Enter your number : ");
24        int x = sc.nextInt();
25        System.out.print("Enter number to be
removed : ");
26        int a = sc.nextInt();
27        System.out.println(replaceDigit(x, a));
28    }
29 }
```





```
Name :V. Jahnavi  
SAP ID:51834788  
Enter your number : 1223452  
Enter number to be removed : 2  
1345
```

```
Process finished.
```

```

1 class Pattern
2 {
3     public static void main(String args[])
4     {
5         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
6         for(int i=1;i<=5;i++)
7         {
8             for(int j=1;j<=i;j++)
9             {
10                 if(i==5 && j==3)
11                 {
12                     System.out.print("@");
13                 }
14                 else if(j==1 || j==i)
15                 {
16                     System.out.print("1");
17                 }
18                 else
19                 {
20                     System.out.print("!");
21                 }
22             }
23             System.out.println();
24         }
25     }
26 }

```



Name :V. Jahnavi

SAP ID:51834788

1

11

1!1

1!!1

1!@!1

Process finished.





```

1  import java.util.Scanner;
2  public class BubbleSort
3  {
4      public static void main(String []args)
5      {
6          System.out.println("Name :V.
Jahnavi\nSAP ID:51843788");
7          Scanner sc = new Scanner(System.in);
8          System.out.println("Enter Size :");
9          int n = sc.nextInt();
10         sc.nextLine();
11         String[] str = new String[n];
12         System.out.println("enter "+n+"
elements : ");
13         for (int i=0;i<n;i++)
14         {
15             str[i]=sc.nextLine();
16         }
17         for (int i=0;i<n;i++)
18         {
19             for (int j=i+1;j<n;j++)
20             {
21                 if (str[i].compareTo(str[j])>0)
22                 {
23                     String temp = str[j];
24                     str[j] = str[i];
25                     str[i] = temp;
26                 }
27             }
28         }
29         System.out.println("Sorted string : ");
30         for (int i=0;i<n;i++)
31         {
32             System.out.println(str[i]);
33         }
34     }
35 }

```



```
Name :V. Jahnavi
SAP ID:51843788
Enter Size :
6
enter 6 elements :
book
door
table
chair
kite
doll
Sorted string :
book
chair
doll
door
kite
table

Process finished.
```

|