



earthquake.java



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```
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,
20            rattling noises.\nSignificant noises unlikely.");
21        }
22        else if(measurement>=4 && measurement<5)
23        {
24            System.out.println("Walls crack");
25        }
26        else if(measurement>=5 && measurement<6)
27        {
28            System.out.println("Furnitures move");
29        }
30        else if(measurement>=6 && measurement<7)
31        {
32            System.out.println("Some buildings collapse");
33        }
34        else if(measurement>=7 && measurement<8)
35        {
36            System.out.println("Many buildings collapsed");
37        }
38    }
39 }
```

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ement<=12)



of buildings.



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```
33     }
34     else if(measurement>=7 && measurement<8)
35     {
36         System.out.println("Many buildings collapsed");
37     }
38     else if(measurement>=8 && measurement<=12)
39     {
40         System.out.println("Total destruction of buildings,
41         roads and bridges");
42     }
43     else if(measurement>12)
44     {
45         throw new Exception("Application crashed");
46     }
47     else
48     {
49         throw new Exception("You cannot enter negative
50         measurement");
51     }
52 }
53 }
54 class UserInput
55 {
56     public static void main(String args[])
57     {
58         Earthquake e=new Earthquake();
59         Scanner sc=new Scanner(System.in);
60         System.out.println("Name:G.vyshnavi,SAP ID:51834743");
61         System.out.println("Enter the measurement : ");
62         try
63         {
64             int measure=sc.nextInt();
65             try
66             {
67                 e.description(measure);
68             }
69             catch(Exception ex)
70             {
```

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```
3 {
4     throw new Exception("You cannot enter negative
5     measurement");
6 }
7 }
8 }
9
10 class UserInput
11 {
12     public static void main(String args[])
13     {
14         Earthquake e=new Earthquake();
15         Scanner sc=new Scanner(System.in);
16         System.out.println("Name:G.vyshnavi,SAP ID:51834743");
17         System.out.println("Enter the measurement : ");
18         try
19         {
20             int measure=sc.nextInt();
21             try
22             {
23                 e.description(measure);
24             }
25             catch(Exception ex)
26             {
27                 System.out.println(ex.getMessage());
28             }
29         }
30         catch(InputMismatchException i)
31         {
32             System.out.println("You cannot enter other than float values");
33         }
34     }
35 }
```

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Terminal



Name:G.vyshnavi,SAP ID:51834743

Enter the measurement :

4

Walls crack

Process finished.





rotate.java



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```
1  import java.util.Scanner;
2  class StringRotations
3  {
4      public static void main(String[] args)
5      {
6          Scanner sc=new Scanner(System.in);
7          System.out.println("Name:G.vyshnavi,SAP ID:51834743");
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 us
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
20             are equal*/
21             {
22                 result=true;
23                 break;
24             }
25             else
26             {
27                 s2=s2.substring(1)+s2.substring(0,1);
28                 /*In every iteration bringing the first letter to last position*/
29             }
30         }
31         return result;
32     }
33 }
34
```

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Terminal



Name:G.vyshnavi,SAP ID:51834743

Enter First String :

xyz

Enter Second String :

zxy

true

Process finished.



number.java



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```
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:G.vyshnavi,SAP ID:51834743");
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 }
30
```

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Terminal



Name:G.vyshnavi,SAP ID:51834743

Enter your number : 122345

Enter number to be removed : 3

12245

Process finished.



patterns.java



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```
1  class Dcoder
2  {
3      public static void main(String args[])
4      {
5          System.out.println("Name:G.vyshnavi,SAP ID:51834743");
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 }
```

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Name:G.vyshnavi,SAP ID:51834743

1

11

1!1

1!!1

1!@!1

Process finished.





bubble_sort.java



Saved

```
1 import java.util.Scanner;
2 public class Demo
3 {
4     public static void main(String []args)
5     {
6         System.out.println("Name:G.vyshnavi,SAP ID:51834743");
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 }
```

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Name:G.vyshnavi,SAP ID:51834743

Enter Size :

2

enter 2 elements :

23

22

Sorted string :

22

23

Process finished.

