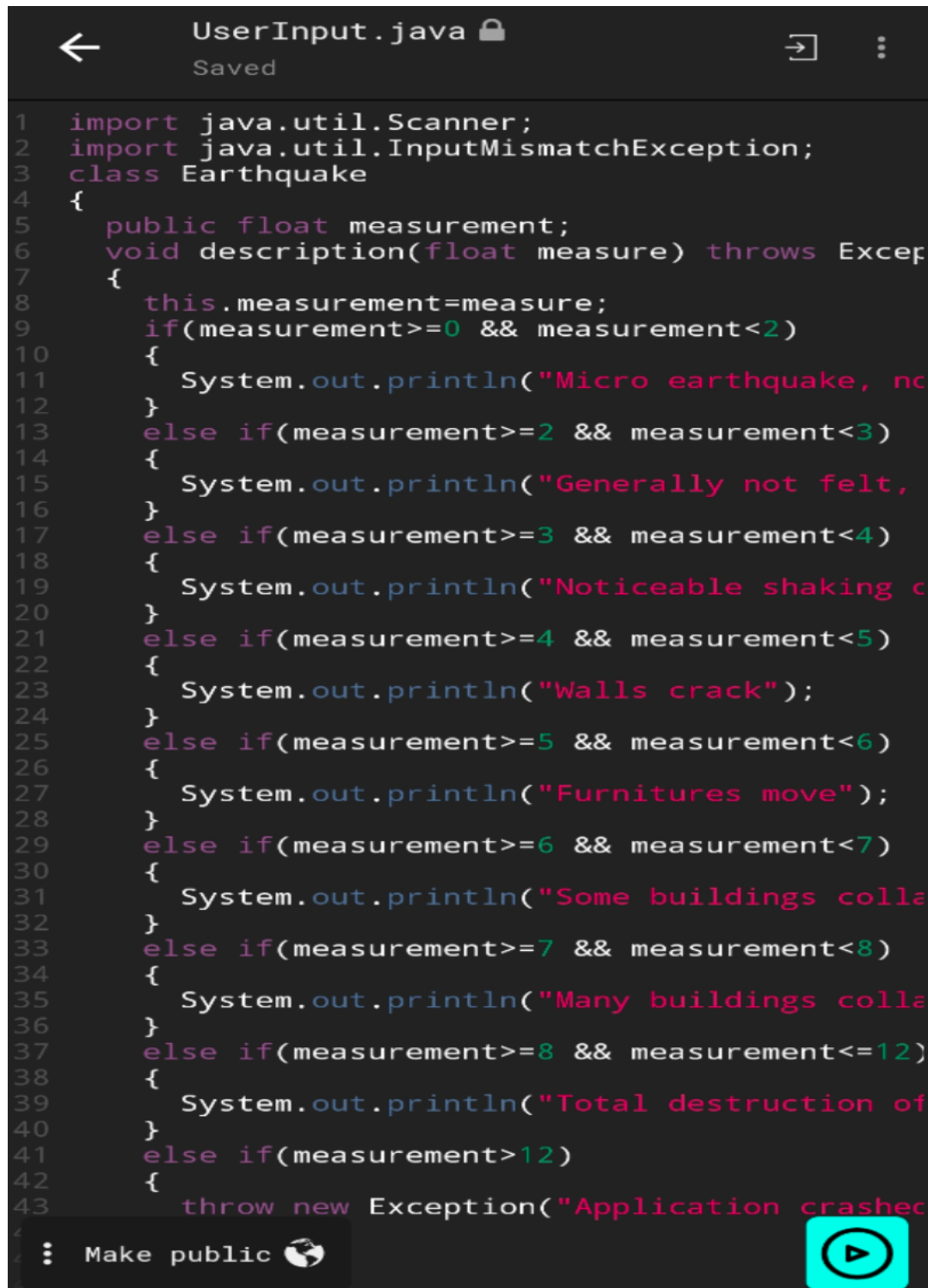


1st Question :



```
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, no damage");
12         }
13         else if(measurement>=2 && measurement<3)
14         {
15             System.out.println("Generally not felt, minor damage");
16         }
17         else if(measurement>=3 && measurement<4)
18         {
19             System.out.println("Noticeable shaking of inner wall");
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)
34         {
35             System.out.println("Many buildings collapse");
36         }
37         else if(measurement>=8 && measurement<=12)
38         {
39             System.out.println("Total destruction of buildings");
40         }
41         else if(measurement>12)
42         {
43             throw new Exception("Application crashed");
44         }
45     }
46 }
```

Make public

←

UserInput.java

→

⋮

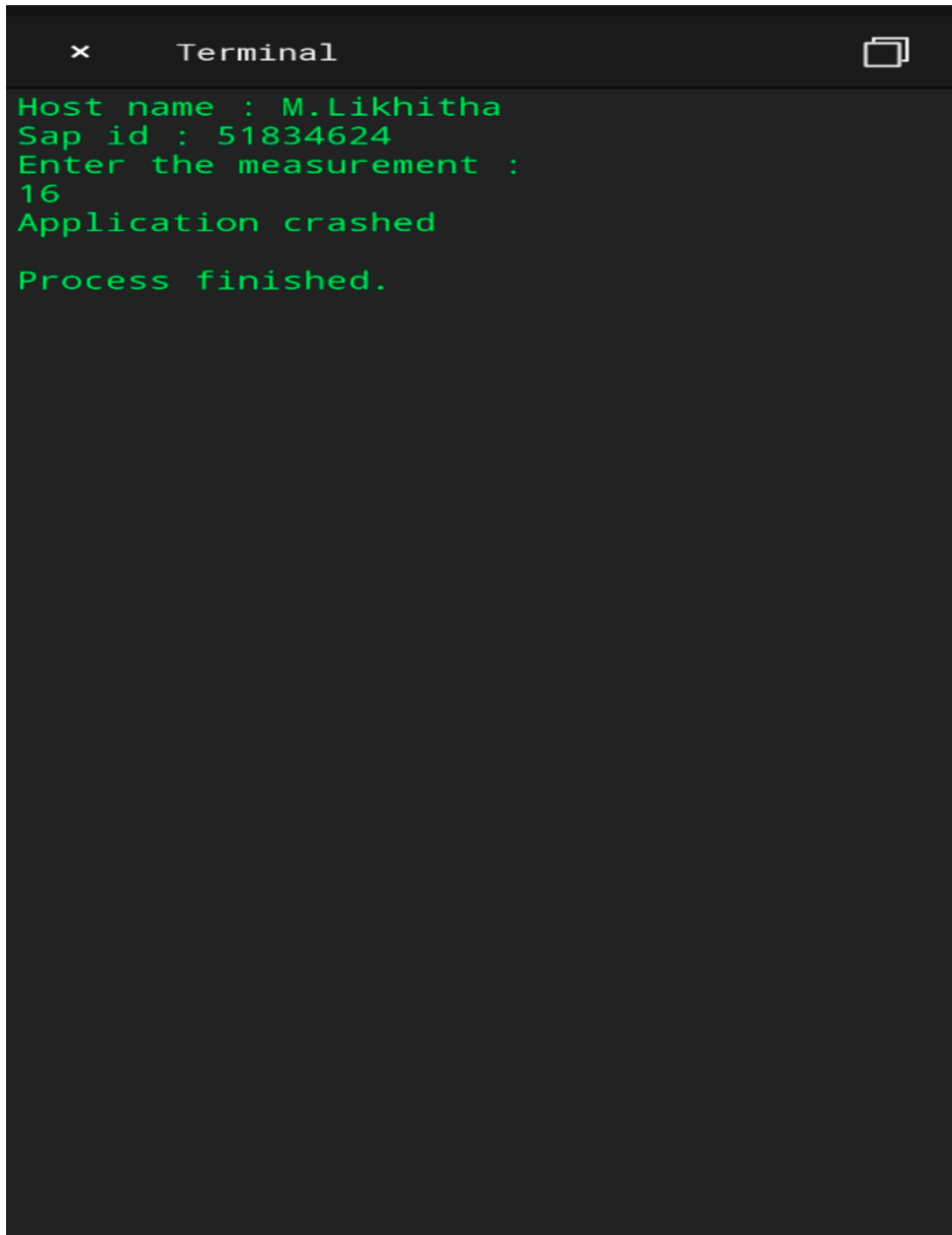
Saved

```
39     System.out.println("Total destruction of
40     }
41     else if(measurement>12)
42     {
43         throw new Exception("Application crashed
44     }
45     else
46     {
47         throw new Exception("You cannot enter ne
48     }
49 }
50 }
51 class UserInput
52 {
53     public static void main(String args[])
54     {
55         System.out.println("Host name : M.Likhith
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                 System.out.println(ex.getMessage());
69             }
70         }
71         catch(InputMismatchException i)
72         {
73             System.out.println("You cannot enter ot
74         }
75     }
76 }
```

⋮ Make public



Out put Screen :

A screenshot of a terminal window with a dark background. The window has a title bar with a close button (X), the text "Terminal", and a maximize button. The terminal displays the following text in green: "Host name : M.Likhitha", "Sap id : 51834624", "Enter the measurement :", "16", "Application crashed", and "Process finished.".

```
Host name : M.Likhitha
Sap id : 51834624
Enter the measurement :
16
Application crashed
Process finished.
```




2nd Question :

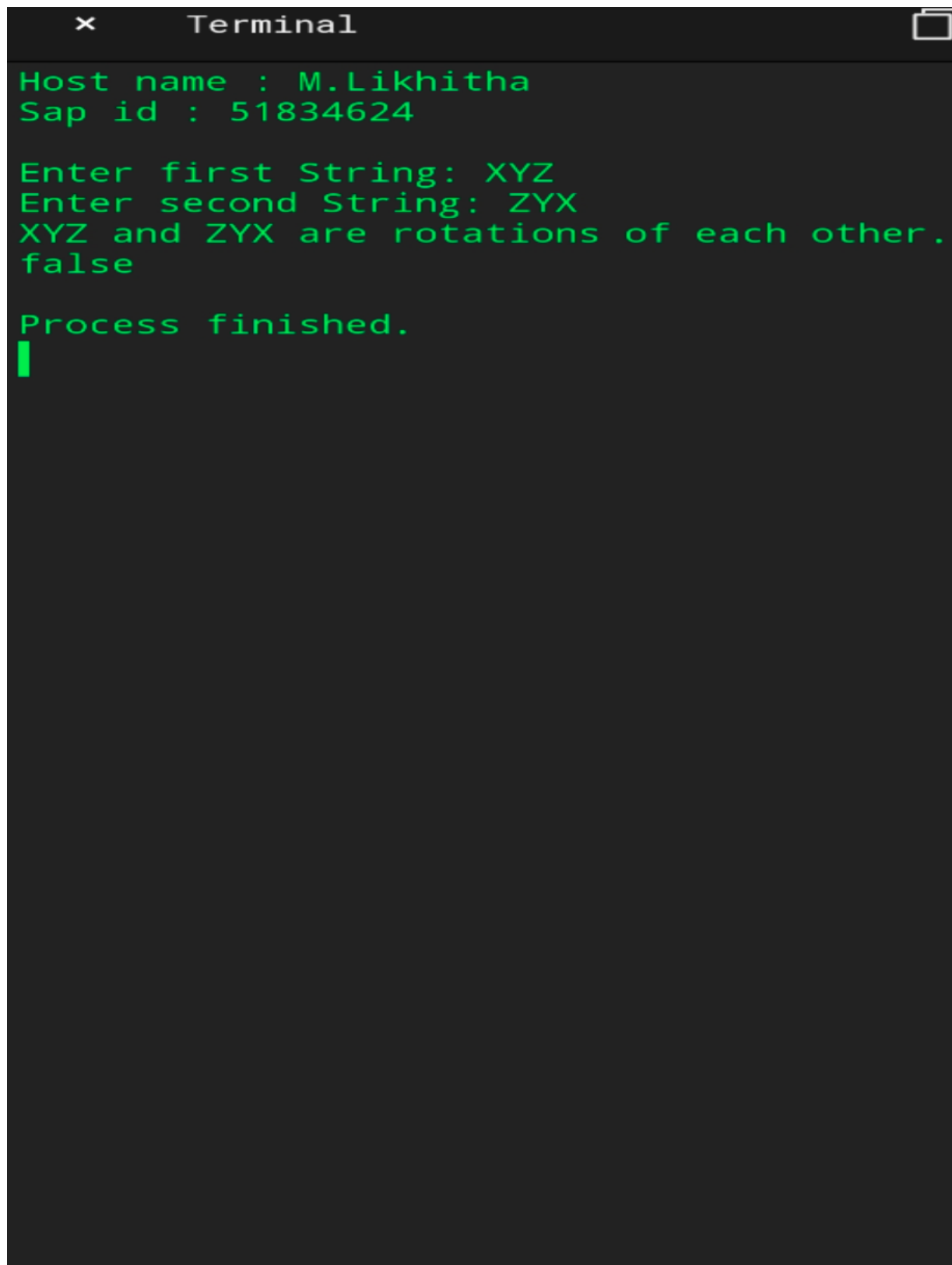
```
Rotation.java
Saved

1  import java.util.Scanner;
2  class Main
3  {
4      public static boolean isRotation(String s1, s
5      {
6          String s=s1+s1;
7          if(s.contains(s2))
8          {
9              return true;
10         }
11         else
12         {
13             return false;
14         }
15     }
16     public static void main (String[] args) {
17         Scanner sc=new Scanner(System.in);
18         System.out.println("Host name : M.Likhith
19         System.out.print("\nEnter first String: "
20         String s1=sc.nextLine();
21         System.out.print("Enter second String: ")
22         String s2=sc.nextLine();
23         System.out.println(s1+" and "+s2+" are ro
24         " True or False?\n"+isRotation(s1,s2
25     }
26 }
27 }
```

Make public



Output Screen :

A terminal window titled "Terminal" with a dark background and green text. The output shows the host name, sap id, and the result of a string rotation check for "XYZ" and "ZYX".

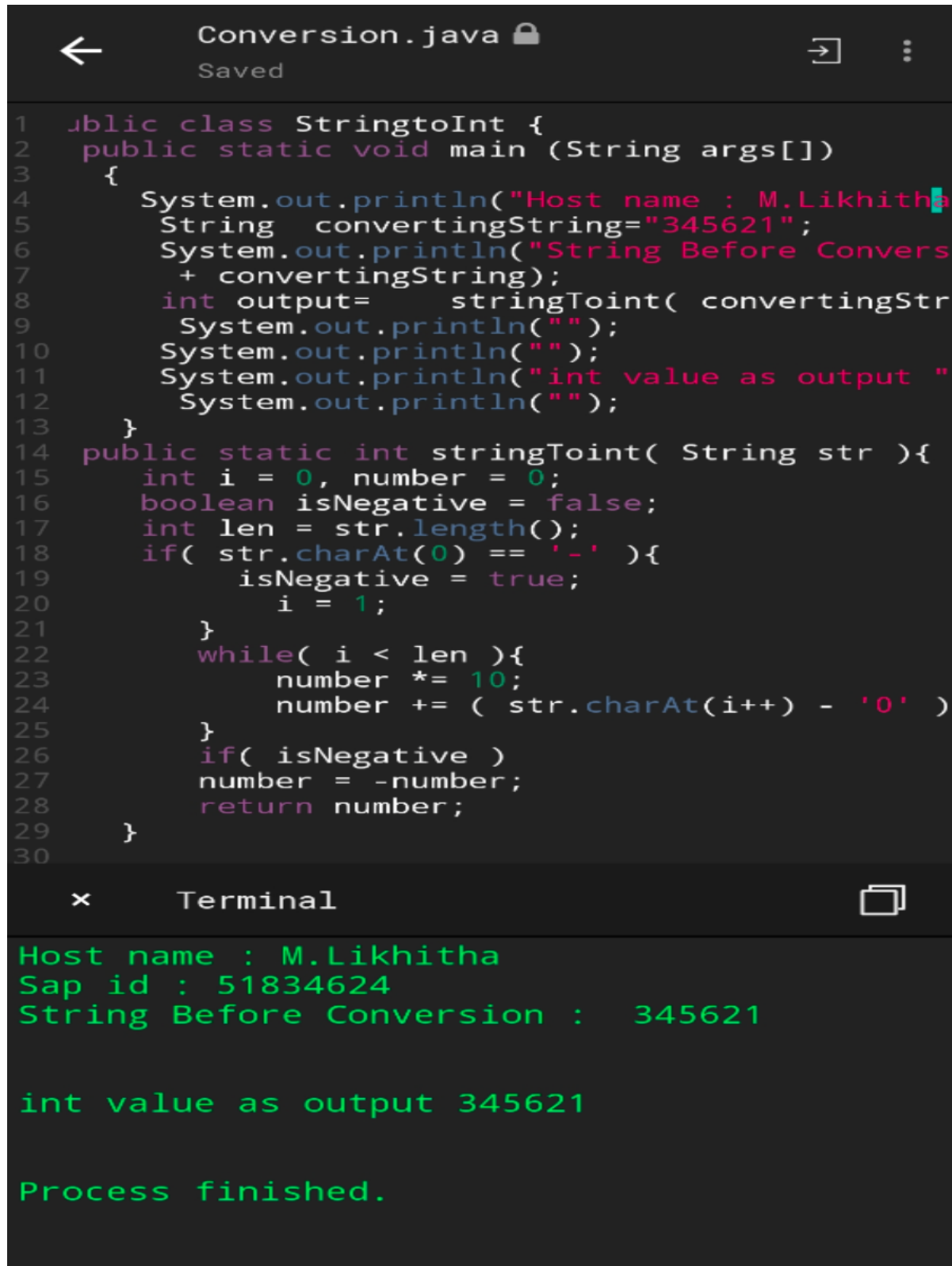
```
Host name : M.Likhitha
Sap id : 51834624

Enter first String: XYZ
Enter second String: ZYX
XYZ and ZYX are rotations of each other.
false

Process finished.
█
```



3rd Question and output Screen :



The image shows a code editor window titled "Conversion.java" with a "Saved" status. The code is a Java program that converts a string to an integer. It includes a main method and a static method named stringToInt. The main method prints the host name, sap id, and the string before conversion, then calls stringToInt and prints the result. The stringToInt method handles negative numbers and converts the string to an integer by iterating through each character and multiplying by 10.

```
1 public class StringToInt {
2     public static void main (String args[])
3     {
4         System.out.println("Host name : M.Likhitha");
5         String convertingString="345621";
6         System.out.println("String Before Conversion : " + convertingString);
7         int output= stringToInt( convertingString);
8         System.out.println("int value as output : " + output);
9     }
10
11     public static int stringToInt( String str ){
12         int i = 0, number = 0;
13         boolean isNegative = false;
14         int len = str.length();
15         if( str.charAt(0) == '-' ){
16             isNegative = true;
17             i = 1;
18         }
19         while( i < len ){
20             number *= 10;
21             number += ( str.charAt(i++) - '0' );
22         }
23         if( isNegative )
24             number = -number;
25         return number;
26     }
27 }
28
29
30
```

Terminal Output:

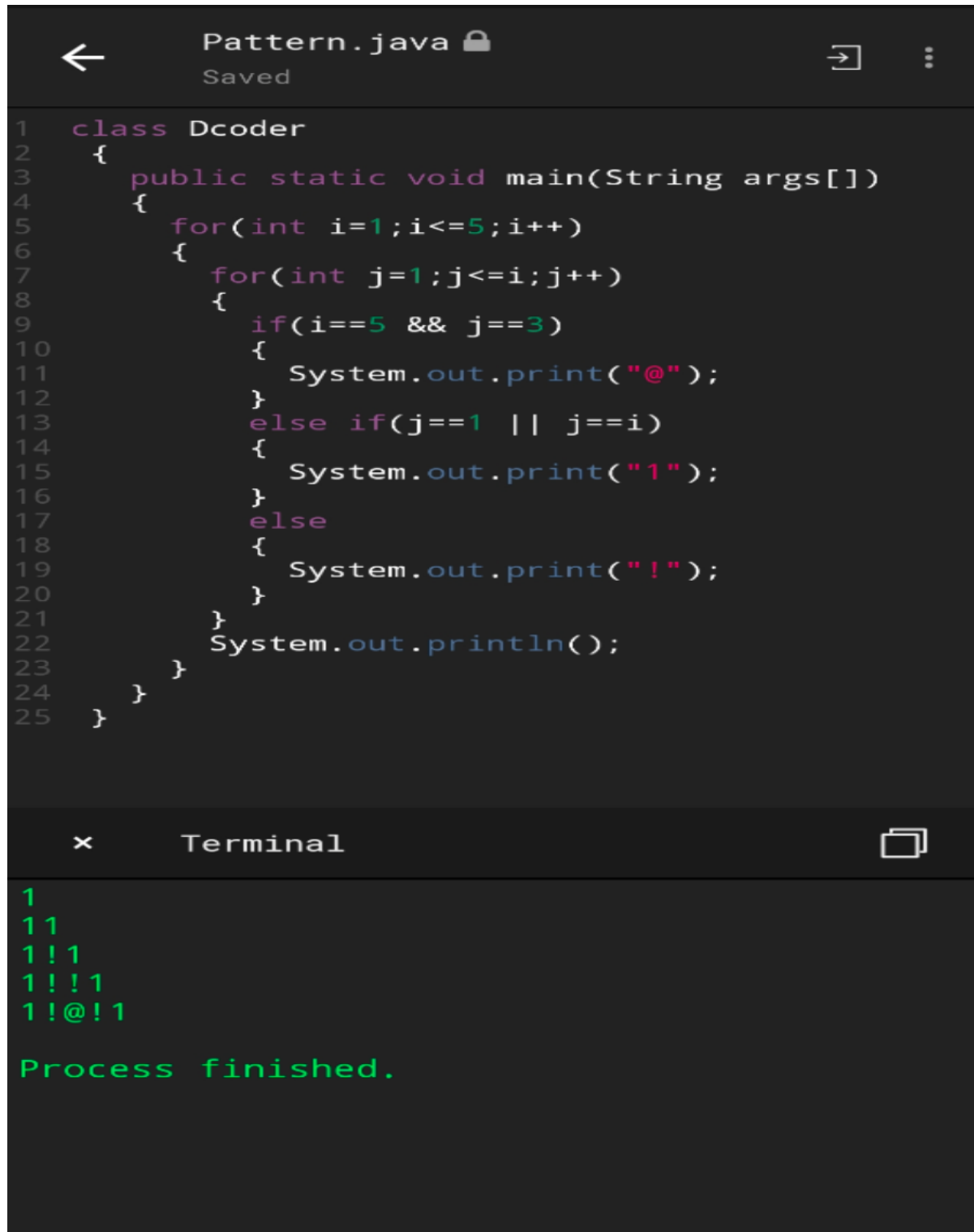
```
Host name : M.Likhitha
Sap id : 51834624
String Before Conversion : 345621

int value as output 345621

Process finished.
```



4th Question and Output Screen:



The screenshot shows a Java IDE window titled "Pattern.java" with a lock icon and a "Saved" status. The code defines a class "Dcoder" with a "main" method that prints a pattern of characters. The pattern consists of five lines: the first line has one '1'; the second line has two '1's; the third line has a '1', an exclamation mark, and another '1'; the fourth line has a '1', two exclamation marks, and another '1'; the fifth line has a '1', an exclamation mark, an '@' symbol, an exclamation mark, and another '1'. Below the code editor is a terminal window titled "Terminal" which displays the output of the program, showing the pattern of characters and the message "Process finished.".

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

Terminal

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

Process finished.
```



5th Question :

```
← Bubblesort.java Saved → ⋮

1 public class Sort
2 {
3     public static void main (String[] args)
4     {
5         System.out.println("Host name : M.Likhith")
6         int a[] = {16, 19, 11, 15, 10, 12, 14}
7
8         for(int j = 0; j<a.length; j++)
9         {
10             //initially swapped is false
11             boolean swapped = false;
12             int i = 0;
13             while(i<7-1)
14             {
15                 //comparing the adjacent elements
16                 if (a[i] > a[i+1])
17                 {
18                     //swapping
19                     int temp = a[i];
20                     a[i] = a[i+1];
21                     a[i+1] = temp;
22                     //Changing the value of swapped
23                     swapped = true;
24                 }
25                 i++;
26             }
27             //if swapped is false then the array is sorted
28             //we can stop the loop
29             if (!swapped)
30                 break;
31         }
32
33         for(int x : a)
34         {
35             System.out.println(x);
36         }
37     }
38 }
39
```

⋮ Make public 🌐 ▶



Output Screen:

```
Terminal
Host name : M.Likhitha
Sap id : 518342624
10
11
12
14
15
16
19

Process finished.
```

