

The screenshot shows a mobile application interface. At the top, there is a header with the time "4:50" and some connectivity and battery status icons. Below the header, the title "Demo.java" is displayed with a lock icon and the word "Saved". There are three icons on the right: a square with a right arrow, a vertical ellipsis, and a horizontal ellipsis.

The main area contains the Java code for the "Demo" class:

```
1 import java.io.*;
2 public class Demo{
3     private int num;
4     private int size;
5     public Demo(int x){
6         num = x;
7         size = 0;
8     }
9     void countDigit(){
10        for(int m = num; m != 0; m /= 10)
11            size++;
12    }
13    public int sumOfDigits(int x, int p){
14        if(x < 10)
15            return (int)Math.pow(x, p);
16        else{
17            int t = (int)Math.pow(x % 10, p);
18            return t + sumOfDigits(x / 10, --p);
19        }
20    }
21    public void check(){
22        if(num == sumOfDigits(num, size))
23            System.out.println(num + " is a Disarium Number");
24        else
25            System.out.println(num + " is not a Disarium Number");
26    }
27    public static void main(String args[])
28        throws IOException{
29        InputStreamReader in = new InputStreamReader(S!
30        BufferedReader br = new BufferedReader(in);
31        System.out.println("Author: T.S.S.N.V.Pavan Kumar");
32        System.out.println("=====");
33        System.out.println("Enter your number:");
34        int x = Integer.parseInt(br.readLine());
35        Demo obj = new Demo(x);
36        obj.countDigit();
```

Below the code, there is a "Terminal" section with the following output:

```
Author: T.S.S.N.V.Pavan Kumar
SAP ID: 51834685
=====
Enter your number:
9
9 is a Disarium Number.
```



Edit with WPS Office

The screenshot shows a mobile application interface with two main sections: a code editor and a terminal window.

**Code Editor (Top):**

```
1 import java.util.Arrays;
2
3 public class Main
4 {
5     private static void sortBinaryArray(int[] inputArray)
6     {
7         int zeroCount = 0;
8
9         System.out.println("Author: T.S.S.S.N.V.Pavan Kumar");
10        System.out.println("=====");
11        System.out.println(" ");
12        System.out.println("Input Array Before Sorting : "+Arrays.toString(inputArray));
13        for (int n = 0; n < inputArray.length; n++)
14        {
15            if (inputArray[n] == 0)
16            {
17                zeroCount++;
18            }
19        }
20        for (int n = 0; n < zeroCount; n++)
21        {
22            inputArray[n] = 0;
23        }
24        for (int n = zeroCount; n < inputArray.length; n++)
25        {
26            inputArray[n] = 1;
27        }
28        System.out.println("Input Array After Sorting : "+Arrays.toString(inputArray));
29    }
30    public static void main(String[] args)
31    {
32        sortBinaryArray(new int[]{1, 0, 1, 1, 0, 1, 0, 0});
33    }
34 }
```

**Terminal (Bottom):**

```
Author: T.S.S.S.N.V.Pavan Kumar
Sap:- 51834685
=====
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]
```



Edit with WPS Office

The screenshot shows a mobile application interface. At the top, there is a status bar with the time "5:27", signal strength, battery level, and network speed "0.20 KB/S". Below the status bar is a navigation bar with a back arrow, the file name "Demo2.java", a lock icon, and a "Saved" indicator. To the right are a refresh icon, a three-dot menu, and a share icon.

The main area contains the Java code for "Demo2.java". The code defines a class "Demo2" with a static method "replaceDigit" and a main method. The "replaceDigit" method takes an integer "a", an integer "numbertobereplaced", and an integer "replacingnumber" as parameters. It initializes "result" to 0 and "Multiply" to 1. It then enters a loop where it repeatedly takes the remainder of "a" divided by 10, checks if it matches "numbertobereplaced", and if so, adds "replacingnumber" multiplied by "Multiply" to "result". If not, it adds the remainder multiplied by "Multiply" to "result". It then multiplies "Multiply" by 10 and updates "a" to its integer division by 10. This loop continues until "a" becomes 0. The "Main" method initializes "a" to 1347232, "numbertobereplaced" to 2, and "replacingnumber" to 5. It prints the author's information ("Author : T.S.S.S.N.V.Pavan Kumar" and "Sap:- 5183685"), calls the "replaceDigit" method, and prints the result.

```
1 public class Demo2
2 {
3     static int replaceDigit(int a, int numbertobereplaced,
4                             int replacingnumber)
5     {
6         int result = 0, Multiply = 1;
7
8         while (a % 10 > 0)
9         {
10
11             int remainder = a % 10;
12             if (remainder == numbertobereplaced)
13                 result = result + replacingnumber * Multiply;
14             else
15                 result = result + remainder * Multiply;
16             Multiply *= 10;
17             a = a / 10;
18         }
19         return result;
20     }
21     public static void Main(String[] args)
22     {
23         int a = 1347232, numbertobereplaced = 2, replacingnu
24         System.out.println("Author : T.S.S.S.N.V.Pavan Kumar"
25         System.out.println(" ");
26         System.out.println(replaceDigit(a, numbertobereplace
27     }
28 }
```

The terminal window below shows the output of the program:

```
Author : T.S.S.S.N.V.Pavan Kumar
Sap:- 5183685
1347636
Process finished.
```



Edit with WPS Office

5:32 3.00 KB/S LTE 4G (50)

Trail3.java

Saved

```
1 public class Trail3
2 {
3     public static int binarySearch(int[] M, int left, int right, int n)
4     {
5         if (left > right) {
6             return -1;
7         }
8         int Mid = (left + right) / 2;
9
10        if (n == M[Mid]) {
11            return Mid;
12        }
13
14        else if (n < M[Mid]) {
15            return binarySearch(M, left, Mid - 1, n);
16        }
17        else {
18            return binarySearch(M, Mid + 1, right, n);
19        }
20    }
21    public static void main(String[] args)
22    {
23        int[] M = { 2, 5, 6, 8, 9, 10 };
24        int key = 3;
25        int left = 0;
26        int right = M.length - 1;
27        int index = binarySearch(M, left, right, key);
28        System.out.println("Author: T.S.S.S.N.V.Pavan Kumar");
29        if (index != -1) {
30            System.out.println("Element found at index " + index);
31        } else {
32            System.out.println("Element not found in the array");
33        }
34    }
35 }
```

x Terminal

```
Author: T.S.S.S.N.V.Pavan Kumar
Sap:- 51834685
Element not found in the array

Process finished.
```

5.



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