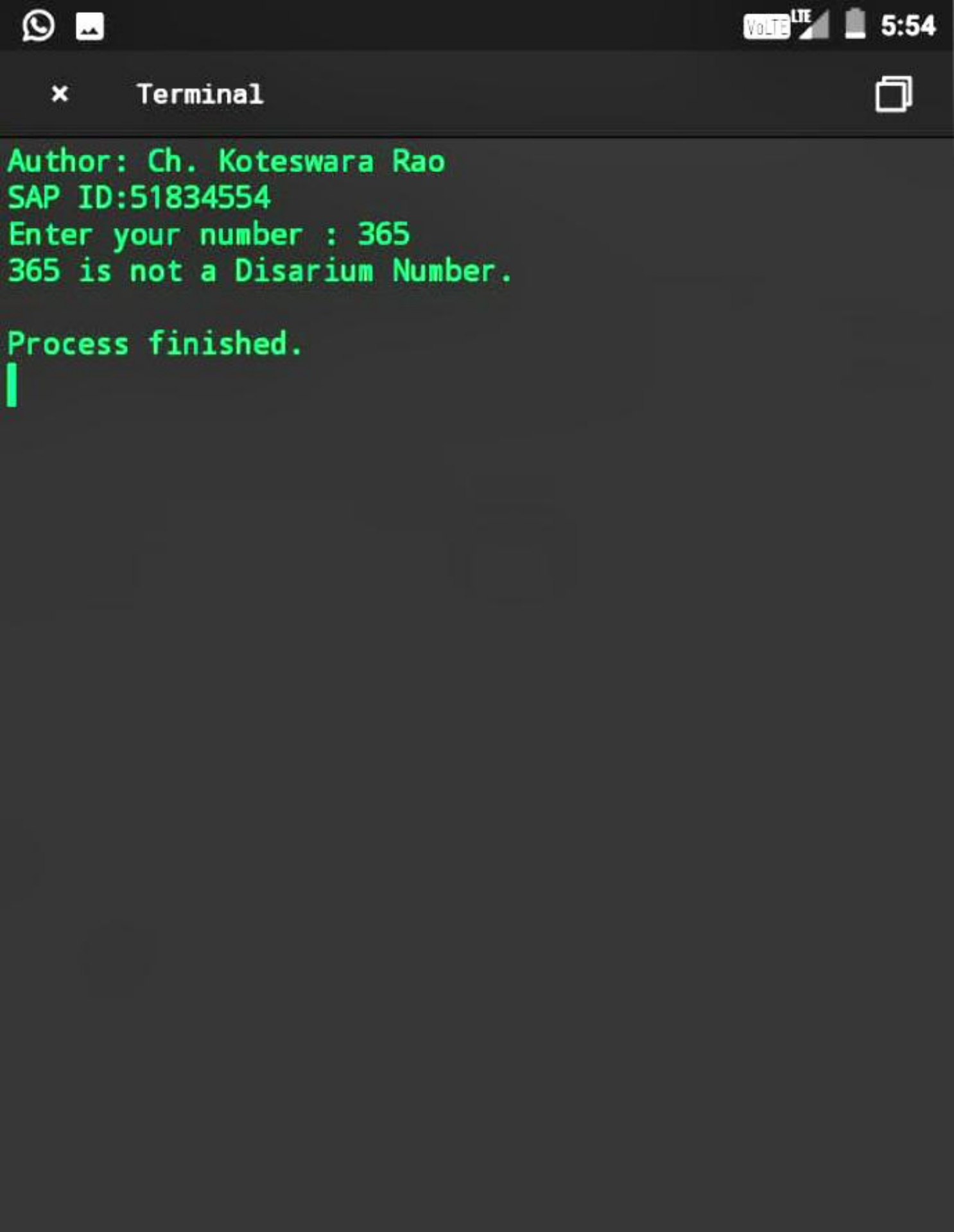
lucky1.java

Saved

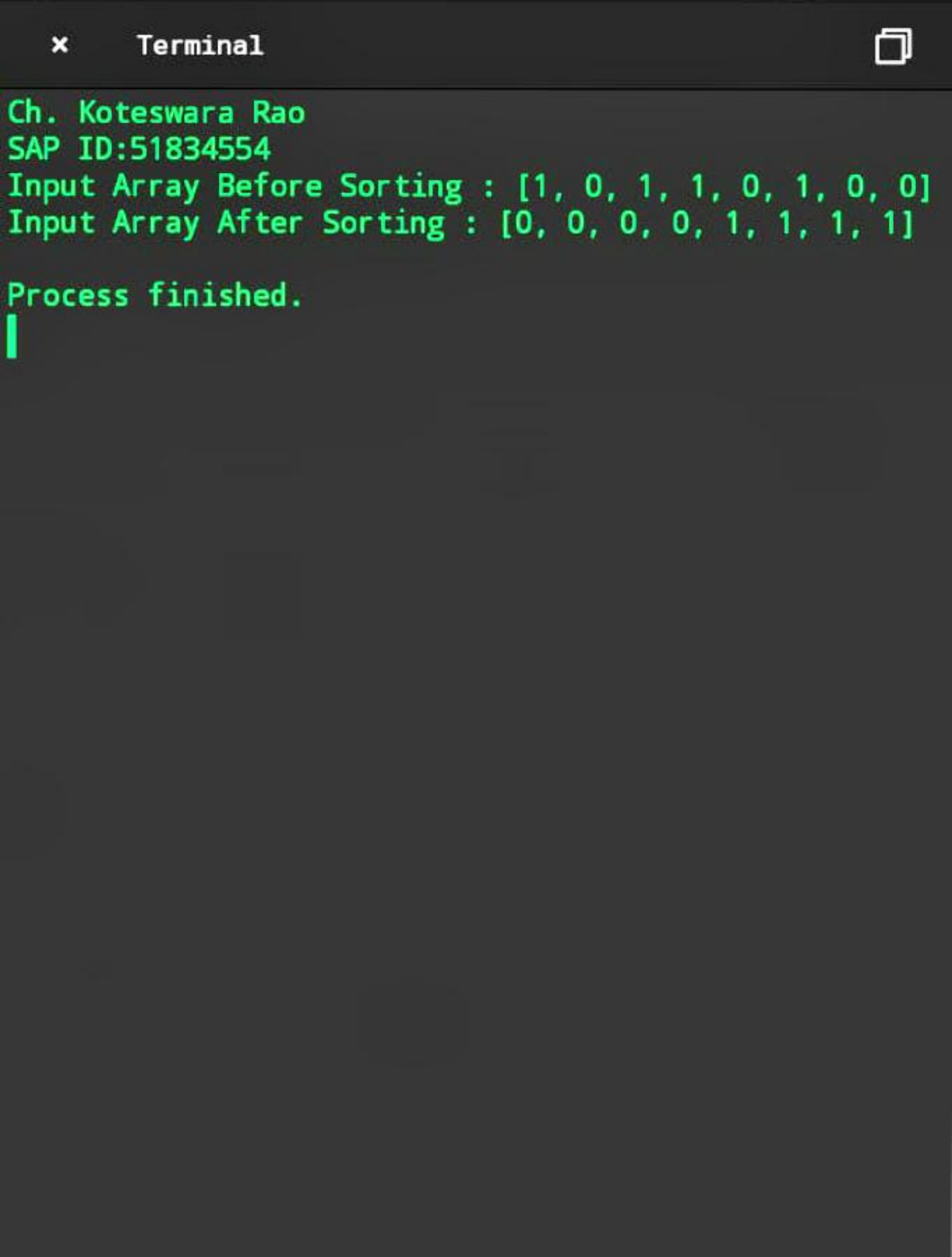
```java
import java.io.*;
public class Main
    {
    public static void main(String[] args)throws IOException
        {
            BufferedReader br=new BufferedReader (new InputStre
            System.out.println("Author: Ch. Koteswara Rao\nSAP
            System.out.print("Enter your number : ");
            int n = Integer.parseInt(br.readLine());
            int copy = n, a = 0, sum = 0;
            String b = Integer.toString(n);
            int len = b.length();

            while(copy>0)
            {
                a = copy % 10;
                sum = sum + (int)Math.pow(a,len);
                len--;
                copy = copy / 10;
            }

            if(sum == n)
                System.out.println(n+" is a Disarium Number.");
            else
                System.out.println(n+" is not a Disarium Number
        }
    }
```

Terminal

```
Author: Ch. Koteswara Rao
SAP ID:51834554
Enter your number : 365
365 is not a Disarium Number.

Process finished.
```


5:54
Terminal
Author: Ch. Koteswara Rao
SAP ID:51834554
Enter your number : 365
365 is not a Disarium Number.
Process finished.

```java
import java.util.Arrays;

public class Main
{
  private static void sortBinaryArray(int[] inputArray)
  {
    int zeroCount = 0;

    System.out.println("Ch. Koteswara Rao\nSAP ID:51834554");
    System.out.println("Input Array Before Sorting : "+Arrays.t

    for (int n = 0; n < inputArray.length; n++)
    {
      if (inputArray[n] == 0)
      {
        zeroCount++;
      }
    }

    for (int n = 0; n < zeroCount; n++)
    {
      inputArray[n] = 0;
    }

    for (int n = zeroCount; n < inputArray.length; n++)
    {
      inputArray[n] = 1;
    }

    System.out.println("Input Array After Sorting : "+Arrays.to
  }

  public static void main(String[] args)
  {
    sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
  }
}
```


Terminal
Ch. Koteswara Rao
SAP ID:51834554
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]
Process finished.

```java
import java.util.*;
import java.lang.*;
// Java program to replace a digit
// with other in a given number.
class GFG
{
static int replaceDigit(int x, int d1,
                                int d2)
{
    int result = 0, multiply = 1;

    while (x % 10 > 0)
    {

        // Take remainder of number
        // starting from the unit
        // place digit
        int remainder = x % 10;
        // check whether it is equal
        // to the digit to be replaced.
        // if yes then replace
        if (remainder == d1){
            result = result + d2 * multiply;
            }
        else {// else remain as such
            result = result + remainder * multiply;
  }
        // Update and move forward
        // from unit place to
        // hundred place and so on.
        multiply *= 10;
        x = x / 10; // update the value
    }
    return result;
}
// Driver code
public static void main(String[] args)
{
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter a number:");
    int x =sc.nextInt();
                                    which no you replace:");
```

```
        // Take remainder of number
        // starting from the unit
        // place digit
        int remainder = x % 10;
        // check whether it is equal
        // to the digit to be replaced.
        // if yes then replace
        if (remainder == d1){
            result = result + d2 * multiply;
            }
        else {// else remain as such
            result = result + remainder * multiply;
  }
        // Update and move forward
        // from unit place to
        // hundred place and so on.
        multiply *= 10;
        x = x / 10; // update the value
    }
    return result;
}
// Driver code
public static void main(String[] args)
{
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter a number:");
    int x =sc.nextInt();
  System.out.println("enter which no you replace:");
   int  d1 =sc.nextInt();
  System.out.println("enter the number which number you want:")
  int d2 =sc.nextInt();
    System.out.println(replaceDigit( x, d1, d2));
    System.out.println("Ch. Koteswara Rao\n51834554");
}
}
```

```
Enter a number:
97531
enter which no you replace:
5
enter the number which number you want:
0
97031
Ch. Koteswara Rao
51834554


Process finished.
```

```java
public class Main
{
  public static int binarySearch(int[] M, int left, int right,
  {
    if (left > right) {
      return -1;
    }


    int mid = (left + right) / 2;

    if (n == M[mid]) {
      return mid;
    }

    else if (n < M[mid]) {
      return binarySearch(M, left, mid - 1, n);
    }

    else {
      return binarySearch(M, mid + 1, right, n);
    }
  }

  public static void main(String[] args)
  {
    int[] M = { 1, 4,  7,  8, 9, 10 };
    int key = 11;

    int left = 0;
    int right = M.length - 1;

    int index = binarySearch(M, left, right, key);

    System.out.println("Ch. Koteswara Rao\nSAP ID: 51834554");
    if (index != -1) {
      System.out.println("Element found at index " + index);
    } else {
      System.out.println("Element not found in the array");
    }
  }
```


Terminal
Ch. Koteswara Rao
SAP ID: 51834554
Element not found in the array
Process finished.