```java
import java.io.*;
public class Main
    {
    public static void main(String[] args)throws IOExcep
        {
            BufferedReader br=new BufferedReader (new In
            System.out.println("Name: T.pravallika sapid
            System.out.print("Enter a 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 Numb
            else
                System.out.println(n+" is not a Disarium
        }
    }
```

Terminal

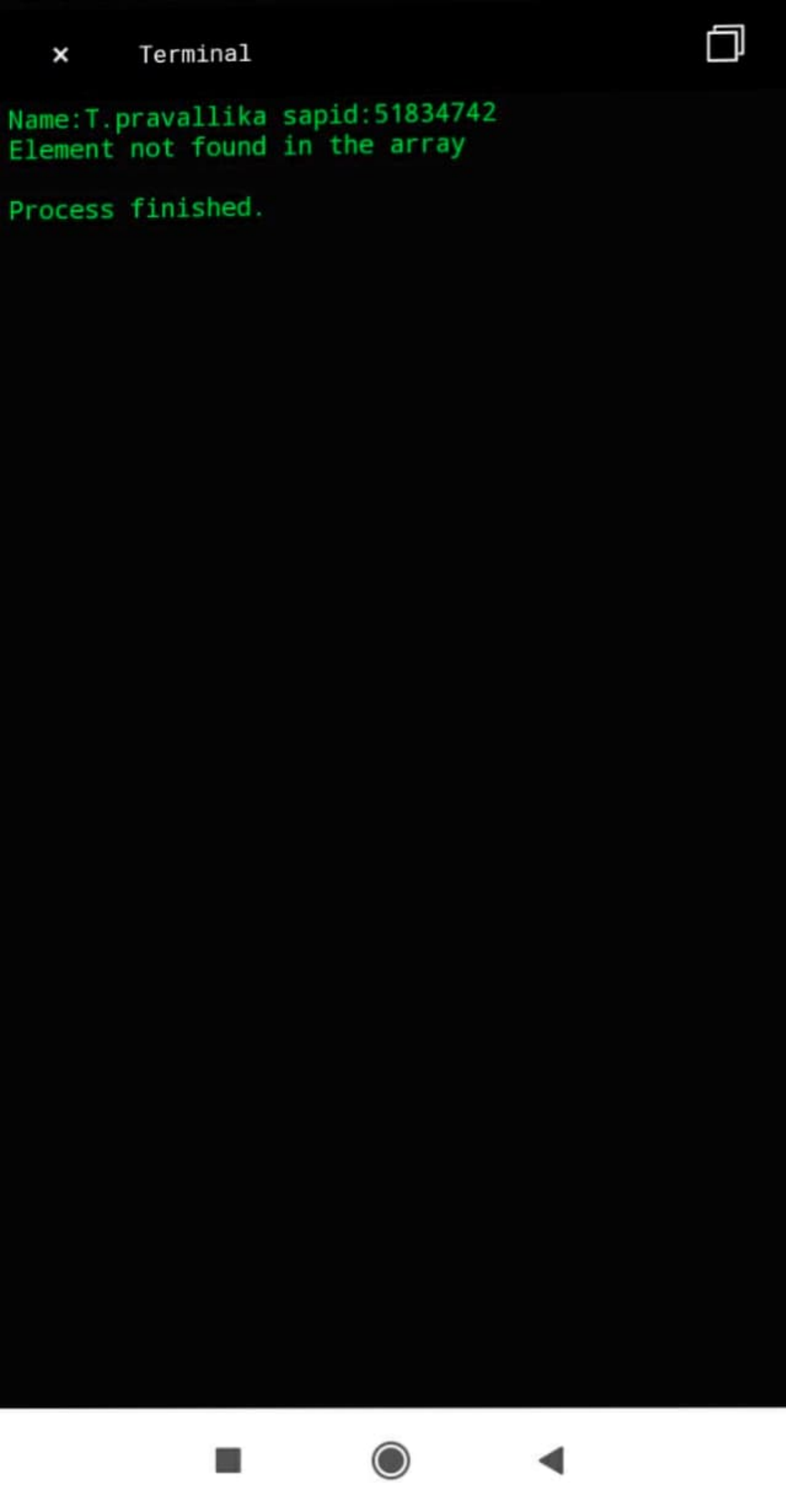
```
Name: T.pravallika sapid: 51834742
Enter a number : 5
5 is a Disarium Number.

Process finished.
```

java 6.java

Saved

```java
public class Main
{
  public static int binarySearch(int[] M, int left, int
  {
    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 = { 2, 5, 6, 8, 9, 10 };
    int key = 3;

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

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

    System.out.println("Name:T.pravallika sapid:51834742"
    if (index != -1) {
      System.out.println("Element found at index " + ind
    } else {
      System.out.println("Element not found in the array"
    }
  }
}
```

Make public


Terminal
Name:T.pravallika sapid:51834742
Element not found in the array
Process finished.

```java
mport java.util.Arrays;

ublic class Main

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

        System.out.println("Name:T.pravallika sapid:518347
        System.out.println("Input Array Before Sorting : "


        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 : "+
    }

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

Terminal

```
Name:T.pravallika sapid:51834742
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0,
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1

Process finished.
```