① import java.io.*;

public class Main{

private int num;

Private int size;

public Main (int x){

num = x;

size = 0;

}

void countDigit(){

for(int m = num; m != 0; m /= 10)

size++;

}

public int sumofDigits (int x, int p){

IF(x < 10)

return (int) Math.pow(x,p);

else

int t = (int) Math.pow(x % 10, p);

return t + sumofdigits(x/10, --p);

}

}

public void check(){

if (num == sumofdigits(num, size))

System.out.println(num+" is a Disarium

Number");

```
else
System.out.println(num+" is not a Disarium
    Number.");
}
public static void main(string args[])
        throws IOException {
    InputStreamReader in = new InputStreamReader
                           (system.in);
BufferedReader br = new BufferedReader(in);
System.out.println("S.Renu Varshith , 51834531 ");
  System.out.print ("Number;");
    int x = integer.parseInt (br.readline());
    Main obj = new Main(x);
      obj.countDigit();
      obj.check();
  }
}
```

③ public class Renu

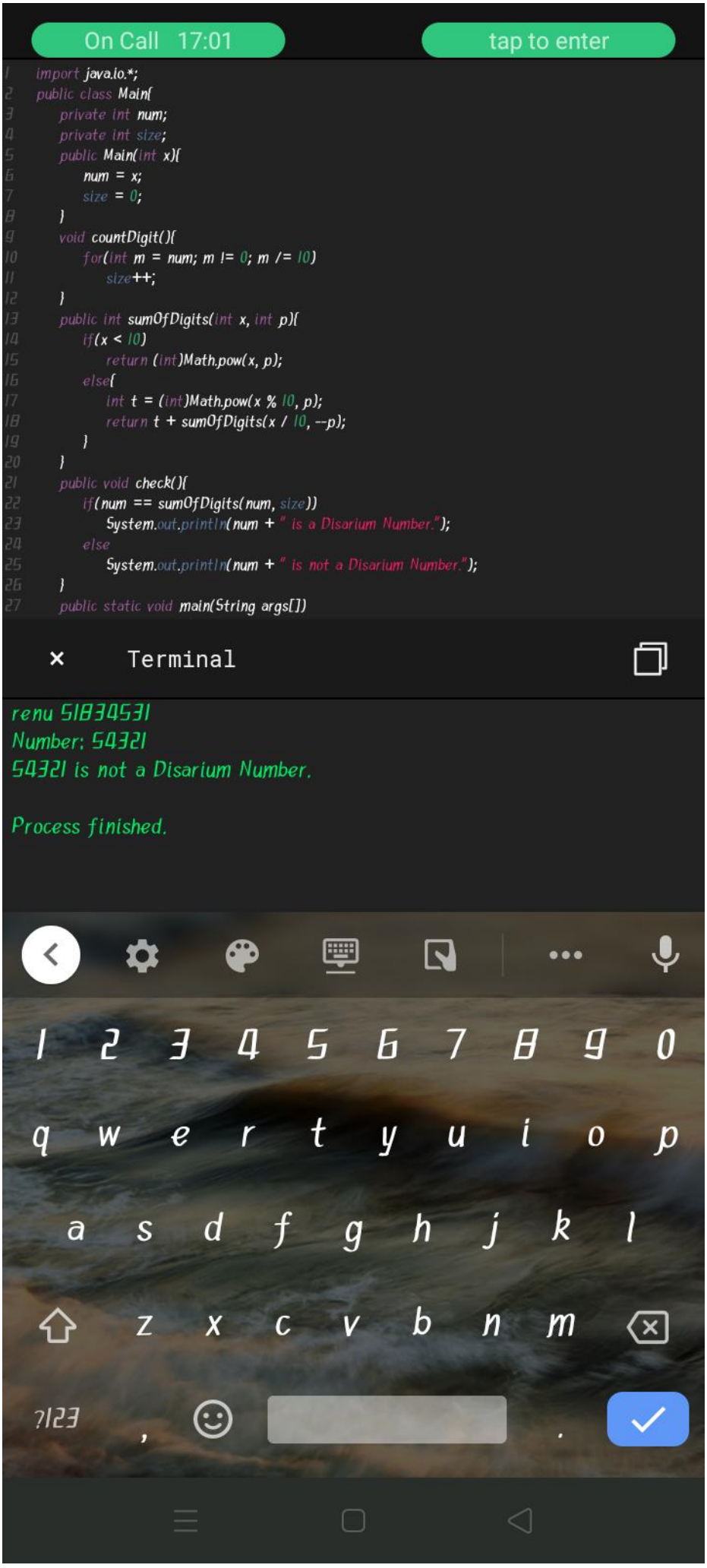
```
{
static int replace_digit(int a, int numberto
    bereplaced, int replacingnumber)
```

```
{
 int result = 0, multiply = 1;
  while (a%10>0)
  {
   int remainder = a%10;
 if (remainder == numbertObereplaced)
  result = result + replacingnumber * multiply;
  else
 result = result + remainder * multiply;
   multiply * = 10;
    a = a / 10;
  }
return result;
}
public static void main (string [] args)
{
int a = 645, numbertobereplaced = 6,
 replacingnumber = 5;
 System.out.println("A. Renu, 51834531");
System.out.println(replaceDigit(a, numbertobe
 replaced, replacingnumber));
 }
}
```

```
(5) class Main {
static int binarySearch (String[] arr, String x)
{
int l = 0, r = arr.length - 1;
while (l <= r) {
int m = l + (r - l) / 2;
int res = x.compareTo(arr[m]);
if (res == 0)
return m;
if (res > 0)
l = m + 1;
else
r = m - 1;
}
return -1;
}

public static void main(String []args)
{
String []arr = { "[illegible]", "[illegible]", "[illegible]", "[illegible]" };
String x = "[illegible]";
int result = binarySearch(arr, x);
```

```
ff (result == -1)
System.out.println("element not present");
    else
System.out.println("element found at" + "index"
        + result);
}
}
```


On Call 17:01
tap to enter
import java.io.*;
public class Main{
private int num;
private int size;
public Main(int x){
num = x;
size = 0;
}
void countDigit(){
for(int m = num; m != 0; m /= 10)
size++;
}
public int sumOfDigits(int x, int p){
if(x < 10)
return (int)Math.pow(x, p);
else{
int t = (int)Math.pow(x % 10, p);
return t + sumOfDigits(x / 10, --p);
}
}
public void check(){
if(num == sumOfDigits(num, size))
System.out.println(num + " is a Disarium Number.");
else
System.out.println(num + " is not a Disarium Number.");
}
public static void main(String args[])
Terminal
renu 51834531
Number: 54321
54321 is not a Disarium Number.
Process finished.


17:45
11.0 KB/S
VO LTE
june 17 2.java
Saved
public class Main
{
static int replaceDigit(int a, int numbertobereplaced,
int replacingnumber)
{
int result = 0, multiply = 1;
while (a % 10 > 0)
{
int remainder = a % 10;
if (remainder == numbertobereplaced)
result = result + replacingnumber * multiply;
else
result = result + remainder * multiply;
multiply *= 10;
a = a / 10;
}
return result;
}
public static void main(String[] args)
{
int a = 11223344, numbertobereplaced = 2, replacingnumber = 5;
System.out.println("s.renu varshith, 51834531");
System.out.println(replaceDigit(a, numbertobereplaced, replacingnumber));
}
}
Terminal
s.renu varshith, 51834531
11553344
Process finished.


On Call 15:10
tap to enter
june 17 2.java
Saved
int res = x.compareTo(arr[m]);
// Check if x is present at mid
if (res == 0)
return m;
// If x greater, ignore left half
if (res > 0)
l = m + 1;
// If x is smaller, ignore right half
else
r = m - 1;
}
return -1;
}
// Driver method to test above
public static void main(String []args)
{
System.out.println("renu 51834531");
String[] arr = { "renu", "varshith", "sai", "ajay"};
String x = "renu";
int result = binarySearch(arr, x);
Terminal
renu 51834531
Element found at index 0
Process finished.