

# Rajalakshmi Engineering College

Name: Jaiharish D  
Email: 240701203@rajalakshmi.edu.in  
Roll no: 240701203  
Phone: 8610585694  
Branch: REC  
Department: CSE - Section 4  
Batch: 2028  
Degree: B.E - CSE

Scan to verify results



## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q5

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Ted, the computer science enthusiast, has accepted the challenge of writing a program that checks if the number of digits in an integer matches the sum of its digits.

Guide Ted in designing and writing the code to solve this problem using a 'do-while' loop.

##### ***Input Format***

The input consists of an integer N, representing the number to be checked.

##### ***Output Format***

If the sum is equal to the number of digits, print "The number of digits in N matches the sum of its digits."

Else, print "The number of digits in N does not match the sum of its digits."

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 20

Output: The number of digits in 20 matches the sum of its digits.

### ***Answer***

```
// You are using Java
import java.util.*;

class sample{
    public static void main(String args[])
    {
        Scanner scan=new Scanner(System.in);
        int a=scan.nextInt();
        int sum=0,no=0,temp=a;
        do{
            sum+=a%10;
            a/=10;
            no++;
        }
        }while(a>0);
        System.out.print((sum==no)?"The number of digits in "+temp+" matches the
sum of its digits.": "The number of digits in "+temp+" does not match the sum of
its digits.");
    }
}
```

**Status : Correct**

**Marks : 10/10**