

# Rajalakshmi Engineering College

Name: Ramya J.T  
Email: 241801223@rajalakshmi.edu.in  
Roll no: 241801223  
Phone: 8946015292  
Branch: REC  
Department: AI & DS - Section 5  
Batch: 2028  
Degree: B.E - AI & DS

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## 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.Scanner;
class Digits{
    public static void main(String[] args){
        int N;
        Scanner s=new Scanner(System.in);
        N=s.nextInt();
        int temp=N;
        int sum=0;
        int count=0;
        do{
            sum+=temp%10;
            temp/=10;
            count++;
        }while(temp>0);
        if(count==sum){
            System.out.printf("The number of digits in %d matches the sum of its
digits.",N);
        }else{
            System.out.printf("The number of digits in %d does not match the sum of
its digits.",N);
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10