

# Rajalakshmi Engineering College

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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***

```
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner scan=new Scanner(System.in);
        int a=scan.nextInt();
        int count=1;
        int i,u=a;
        for(i=1; a!=0;i++){
            count+=a%10;
            a/=10;
        }
        if(count==i){
            System.out.printf("The number of digits in %d matches the sum of its
digits.",u);
        }
        else{
            System.out.printf("The number of digits in %d does not match the sum of
its digits.",u);
        }
    }
}
```

***Status : Correct***

***Marks : 10/10***