

# Rajalakshmi Engineering College

Name: Nikhilesh D  
Email: 240701360@rajalakshmi.edu.in  
Roll no: 240701360  
Phone: 9940617256  
Branch: REC  
Department: CSE - Section 5  
Batch: 2028  
Degree: B.E - CSE

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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;
public class Main{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();

        int num = N;
        int sod = 0;
        int dc = 0;
        do {
            int digit = num % 10;
            sod += digit;
            dc++;
            num /= 10;
        } while (num > 0);

        if (dc == sod) {
            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);
        }
        sc.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**