

# 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 sc = new Scanner(System.in);
        int a = sc.nextInt();
        int org = a;
        int sum = 0;
        int cnt = 0;
        do
        {
            int digits = a % 10;
            a = a / 10;
            cnt++;
            sum += digits;
        } while(a > 0);
        if(cnt == sum)
        {
            System.out.printf("The number of digits in %d matches the sum of its
digits.",org);
        }
        else
        {
            System.out.printf("The number of digits in %d does not match the sum of
its digits.",org);
        }
    }
}
```

}

**Status :** Correct

**Marks :** 10/10