

# Rajalakshmi Engineering College

Name: Tejendra Chapai  
Email: 240701558@rajalakshmi.edu.in  
Roll no:  
Phone: 8368278358  
Branch: REC  
Department: CSE - Section 2  
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***

```
import java.util.*;

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

        int c=0;
        int su=0;
        int a;
        int n = num;
        while(num!=0)
        {
            a=num%10;
            su=su+a;
            num=num/10;
            c++;
        }
        if(c==su)
        {
            System.out.printf("The number of digits in %d matches the sum of its
digits.%n",n);
        }
        else
        {
            System.out.printf("The number of digits in %d does not match the sum of
its digits.%n",n);
        }
    }
}
```

```
}  
}
```

**Status :** Correct

**Marks :** 10/10