

# Rajalakshmi Engineering College

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Department: CSE - Section 4

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

**Status : Correct**

**Marks : 10/10**