

# 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**

```
// You are using Java
import java.util.Scanner;
class main{
    public static void main(String args[]){
        Scanner scan=new Scanner(System.in);
        int a=scan.nextInt();
        int l=String.valueOf(a).length();
        int sum=0;
        int initial=a;
        for(int i=0;i<l;i++){
            int d=initial%10;
            initial=initial/10;
            sum=sum+d;
        }
        if(sum==l){
            System.out.println("The number of digits in "+a+" matches the sum of its
digits.");
        }
        else{
            System.out.println("The number of digits in "+a+" does not match the sum
of its digits.");
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10