

# 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.io.*;
import java.util.Scanner;
public class Main{
    public static void main(String[] args){
        Scanner scanner=new Scanner(System.in);
        int num=scanner.nextInt();

        int temp=num; //as num becomes zero at the end of the loop
        int sum=0;
        int last=0;
        int count=0;
        do{
            last=num%10;
            sum+=last; //sum is the sum of digits
            count+=1; //count is the number of digits
            num=num/10; //we dont use // in java unlike c
        }while(num!=0);

        if(sum==count){
            System.out.println("The number of digits in "+temp+" matches the sum of
its digits.");
        }else{
            System.out.println("The number of digits in "+temp+" does not match the
sum of its digits.");
        }
        scanner.close();
    }
}
```

**Status :** Correct

**Marks :** 10/10