

# 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;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);
```

```
  
        int N = scanner.nextInt();  
        int originalNumber = N;
```

```
  
        int sum = 0;  
        int digitCount = 0;
```

```
  
        do {  
            int digit = N % 10;  
            sum += digit;  
            digitCount++;  
            N /= 10;  
        } while (N > 0);
```

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

```
}  
  }  
}
```

**Status :** Correct

**Marks :** 10/10