

# 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 n1=new Scanner(System.in);
```

```
        int n=n1.nextInt();
```

```
        int t=n;
```

```
        int dc=0;
```

```
        int ds=0;
```

```
        do{
```

```
            int d=t%10;
```

```
            ds+=d;
```

```
            dc++;
```

```
            t/=10;
```

```
        }while (t!=0);
```

```
        if(ds==dc){
```

```
            System.out.println("The number of digits in "+n+" matches the sum of its digits.");
```

```
        }
```

```
        else{
```

```
            System.out.println("The number of digits in "+n+" does not match the sum of its digits.");
```

```
        }
```

```
    }
```

```
}
```

**Status : Correct**

**Marks : 10/10**