

# Rajalakshmi Engineering College

Name: SANJANASREE V

Email: 241001223@rajalakshmi.edu.in

Roll no: 2116241001223

Phone: 9445420242

Branch: REC

Department: IT - Section 3

Batch: 2028

Degree: B.E - IT

Scan to verify results



## 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 main{
```

```
    public static void main(String[] args){
```

```
        Scanner s = new Scanner(System.in);
```

```
        int N = s.nextInt(),sum=0,x=0,b=N,d=0;
```

```
        do{
```

```
            x=N%10;
```

```
            sum+=x;
```

```
            d++;
```

```
            N/=10;
```

```
        }while(N>0);
```

```
        if(sum==d)
```

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

```
        else
```

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

```
        }
```

```
    }
```

**Status : Correct**

**Marks : 10/10**