

# 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.*;
```

```
class Main
```

```
{
```

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

```
    {
```

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

```
        int x=sc.nextInt();
```

```
        int c=0,sum=0,x1=x;
```

```
        do{
```

```
            c++;
```

```
            sum+=x1%10;
```

```
            x1/=10;
```

```
        }while(x1!=0);
```

```
        if(c==sum){
```

```
            System.out.printf("The number of digits in %d matches the sum of its  
digits.",x);
```

```
        }
```

```
        else{
```

```
            System.out.printf("The number of digits in %d does not match the sum of  
its digits.",x);
```

```
        }
```

```
    }
```

```
}
```

**Status :** Correct

**Marks :** 10/10