

JAVA ASSIGNMENT
ON
PROGRAMS
(Sum of Digits)

Submitted by

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Question:

Create a program that calculates the sum of the digits of a number. The program should accept an integer 'n' as input.

Boiler Plate Code:

```
public class Main
{
    public static void calculateSumOfDigits(int n) {
        // your code here
    }

    public static void main(String[] args)
    {
        Scanner scan=new Scanner(System.in);

        int n=scan.nextInt();

        calculateSumOfDigits(n);
    }
}
```

Sample Input: 12345

Sample Output: 15

Program:

```
package com.training.kodnest;

import java.util.Scanner;

public class Main {

    public static void calculateSumOfDigits(int n)
    {
        int sum=0;
        while(n!=0)
        {
            int rem=n%10;
            sum=sum+rem;
            n=n/10;
        }
        System.out.println(sum);
    }

    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        int n=scan.nextInt();
        calculateSumOfDigits(n);
    }
}
```

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists various Java classes, with 'SumOfDigits' selected. The main editor displays the following Java code:

```
1 package com.training.kodnest;
2
3 import java.util.Scanner;
4
5 public class Main {
6     public static void main(String[] args) {
7         Scanner scan=new Scanner(System.in);
8         int n=scan.nextInt();
9         calculateSumOfDigits(n);
10    }
11 }
12 public static void calculateSumOfDigits(int n)
13 {
14     int sum=0;
15     while(n!=0)
16     {
17         int rem=n%10;
18         sum=sum+rem;
19         n=n/10;
20     }
21     System.out.println(sum);
22 }
23 }
```

The Console window at the bottom shows the output of the program:

```
<terminated> Main (8) [Java Application] C:\Users\hasya\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.7.v20230425-1502\jre\bin\javaw.exe (25-Jul-2023, 5:12:27 pm) [pid: 12345]
15
```

Output:

12345

15