# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-02-Flow Control Statements</u> / <u>Lab-02-Logic Building</u>

Status	s Finished		
Started	Sunday, 22 September 2024, 9:08 PM		
Completed	Sunday, 6 October 2024, 1:25 PM		
Duration	13 days 16 hours		

```
Question 1
Correct
Marked out of 5.00
```

Write a program that takes as parameter an integer n.

You have to print the number of zeros at the end of the factorial of n.

For example, 3! = 6. The number of zeros are 0. 5! = 120. The number of zeros at the end are 1.

Note: n! < 10^5

Example Input:

3

Output:

0

Example Input:

60

Output:

14

Example Input:

100

Output:

24

Example Input:

1024

Output:

253

# For example:

Input	Result	
3	0	
60	14	
100	24	
1024	253	

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 ⋅ import java.io.*;
 3 ▼ import java.util.Scanner;
 4
 5 √ class prog {
 6
        // Function to return trailing
 7
        // 0s in factorial of n
 8
        static int findTrailingZeros(int n)
9
10
11
            if (n < 0) // Negative Number Edge Case</pre>
12
13
                 return -1;
14
15
            // Initialize result
```

```
17
            int count=0;
            // Keep dividing n by powers
18
            // of 5 and update count
19
            for (int i = 5; n / i >= 1; i*=5
20
                                               ){
                count += n / i;
21
22
23
            return count;
24
        }
25
26
        // Driver Code
27
        public static void main(String[] args)
28
29
            Scanner sc= new Scanner(System.in);
            int n=sc.nextInt();
30
            int res=findTrailingZeros(n);
31
32
            System.out.println(res);
33
        }
   }
34
```

	Input	Expected	Got	
~	3	0	0	~
~	60	14	14	~
~	100	24	24	~
~	1024	253	253	~

Passed all tests! ✓

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Question **2**Correct
Marked out of 5.00

Consider a sequence of the form 0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149...

Write a method program which takes as parameter an integer n and prints the nth term of the above sequence. The nth term will fit in an integer value.

Example Input:

5

Output:

Δ

Example Input:

8

Output:

24

Example Input:

11

Output:

149

## For example:

Input	Result
5	4
8	24
11	149

Answer: (penalty regime: 0 %)

```
1 ⋅ import java.util.*;
 2
    class prog
 3 ▼ {
 4
        public static void main(String args[])
 5 ,
             Scanner input = new Scanner(System.in);
 6
 7
             int a=0,b=1,c=1;
 8
             int d=a+b+c;
 9
             int n=input.nextInt();
             for(int i=4;i<n;i++)</pre>
10
11
12
                 a=b;
13
                 b=c;
14
                 c=d;
15
                 d=a+b+c;
16
17
             System.out.println(d);
18
         }
19
    }
```

	Input	Expected	Got	
~	5	4	4	~
~	8	24	24	~
~	11	149	149	~

Passed all tests! 🗸

```
Question 3
Correct
Marked out of 5.00
```

Write a Java program to input a number from user and print it into words using for loop. How to display number in words using loop in Java programming.

Logic to print number in words in Java programming.

### **Example**

#### Input

1234

### **Output**

One Two Three Four

Input:

16

Output:

one six

## For example:

Test	Input	Result
1	45	Four Five
2	13	One Three
3	87	Eight Seven

Answer: (penalty regime: 0 %)

```
1 ▼ import java.util.Scanner;
3 ▼ public class NumberToWords {
4
5
       // Array to store word equivalents of digits
       6
7
8
9
       public static void main(String[] args) {
10
           Scanner scanner = new Scanner(System.in);
11
12
           // Get integer input from user
13
           int number = scanner.nextInt();
14
15
           // Convert the number to a string to loop through each digit
           String numStr = Integer.toString(number);
16
17
18
           for (int i = 0; i < numStr.length(); i++) {</pre>
19
               char digitChar = numStr.charAt(i);
20
               // If the character is a negative sign, print "Minus"
21
               if (digitChar == '-') {
22
                   System.out.print("Minus ");
23
24
               } else {
25
                   // Convert the character to an integer index and print its word equivalent
                   int digit = Character.getNumericValue(digitChar);
26
                   System.out.print(digitWords[digit] + " ");
27
28
               }
29
           }
30
       }
31
   }
```

	Test	Input	Expected	Got	
~	1	45	Four Five	Four Five	~
~	2	13	One Three	One Three	~
~	3	87	Eight Seven	Eight Seven	~

Passed all tests! 🗸

## ■ Lab-02-MCQ

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