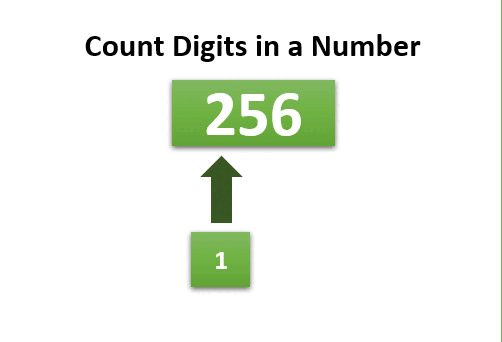
Count Digits

In a realm where numbers hold secrets, a captivating challenge awaits, which is to, **Count digits in a number !!!**

**Our Task:** We are given a number with n number of digits, and our task is to return the count of digits in this number



**Examples:**

**Input:** 256  
**Output:** 3  
   
**Input:** 75  
**Output:** 2  
   
**Input:** 5  
**Output:** 1

**Simple Iterative Solution to count digits in an integer**

**Steps Followed:**

* The integer entered by the user is stored in the variable n.
* Then the while loop is iterated until the test expression n != 0 is evaluated to 0 (false).

 Let us consider **3456** as the input integer.

1. After the**first iteration**, the value of n will be updated to **345**and the **count is incremented to 1.**
2. After the **second iteration**, the value of n will be updated to **34** and the **count is incremented to 2.**
3. After the**third iteration**, the value of n will be updated to **3**and the **count is incremented to 3.**
4. In the **fourth iteration,** the value of n will be updated to**zero** and the **count will be incremented to 4.**
5. Then the test expression is evaluated **( n!=0 ) as false** and the loop terminates with **final count as 4.**

**Below is the implementation of the above approach:**

Python

// Take input through user

x = int(input("Enter x:\n"))

res = 0

while x>0:

x=x//10

res = res + 1

print("count of digit is :",res)

.

**Input :**

9542

**Output**

4

**Time Complexity :**θ(d), where d is the number of digits present in the number.  
**Auxiliary Space:**O(1) or constant

Mark as Read

Report An Issue