

Q8: Digit sum:-  
↓ IPO

Date:

Input	Process	Output
Take any number	<ol style="list-style-type: none"><li>① Take sum = 0</li><li>② IF number &gt; 0, take last digit of number as <math>\text{number} \% 10</math></li><li>③ loop above step by removing last digit and adding previous quotient to next.</li></ol>	Sum of digits of given number.

### PSEUDOCODE

- ① START
- ② INPUT any number
- ③ INITIALIZE sum to 0.
- ④ WHILE number > 0
- ⑤     Let  $\text{number} \% 10$
- ⑥     Divide number by 10 THEN
- ⑦     Add to sum
- ⑧     PRINT "sum"
- ⑨ END



# FLOWCHART

START

number

sum = 0  
x = 0    number = 20

a == 0

yes

"invalid  
input"

END

No

number % 10 = x

number / 10 = a

x + sum = sum

number = a

Loop

