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Problem 8 : Digit Sum

Understood : Take a number and add all its individual digits to output a sum.

Solution : Use mod 10 on number to get last digit and divisor 10 to get the first two digits.

Pseudocode :

START

OUTPUT "Enter a number"

INPUT Num Sum = 0

while Num > 0 :

 last-digit = Num MOD 10

 Sum = Sum + last-digit

 Num = Num / 10

ENDWHILE

OUTPUT "Sum of digits is" Sum

END

IPO chart :

INPUT	Process	OUTPUT
- Enter a Number as integer	- If Number > 0 then last digit would be Number MOD 10. Add - Add this digit to Sum - Update Number to Number / 10.	- "Sum of digits of Number entered is" Sum

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Flowchart :

