

Q8

Flowchart
Start

Input $n, sum = 0$

While $n > 0$

No

Sum

Stop

unit place of n
 $= n \% 10$

$sum = sum + unit$

Pseudocode

Start

Input $n, sum = 0, digit/unit$

Process

$n > 0$

$unit = n \% 10$

$sum = sum + unit$

$n = n / 10$

Output: Sum

Stop

Input

$n, sum = 0$

Process

extract a single unit add to sum
remove unit place from n till $n \leq 0$

Output

sum of n

Explanation: In this program, we reverse the position of units using mod and ~~removing~~ ^{add} one digit at a time.