

Question 2. Write an algorithm and flowchart to determine the sum of digits of a number.

Answer 2.

# ALGORITHM

Step 1: Start.

Step 2: Input the number  $N$ .

Step 3: Assume a variable  $s$  to store sum of digits and initialize it to 0.

Step 4: If  $N$  is equal to zero, GO TO Step 8.

Step 5: Find the **remainder** of " $N$  divided by 10" and add it to  $s$

Step 6: Store the value of **divisor** of " $N$  divided by 10" in the variable  $N$ .

Step 7: GO TO Step 4.

Step 8: Print the value of variable  $s$ .

Step 9: End.