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Q2] ALGORITHM AND FLOWCHART TO CALCULATE THE SUM OF INDIVIDUAL IN THE DIGIT OF A GIVEN POSITIVE INTEGER VALUE.

EX : 823 \rightarrow 8 + 2 + 3 = 13.

ALGORITHM :

STEP 1 : START

STEP 2 : Declare the variables num,sum and rem .

STEP 3 : Initialize the variable sum as 0.

STEP 4 : Read the value of num from the user.

STEP 5 : If the num is not equal to 0.Then goto step 6. Else goto step 10.

STEP 6 : Get remainder of the num and store the result into rem.

STEP 7 : Add the rem value with sum and store the result into sum.

STEP 8 : Divide the num value by 10 and store the result into num.

STEP 9: Repeat the step 5 to 8 until num becomes 0.

STEP 10 : Display the sum.

STEP 11 : STOP.

FLOWCHART :

