

1. Write an algorithm and draw a flowchart to calculate the sum and average of three given numbers.

Algorithm:

Step 1: Start

Step 2: Declare the variables num1, num2, num3, sum and avg.

Step 3: Read the three values num1, num2 and num3

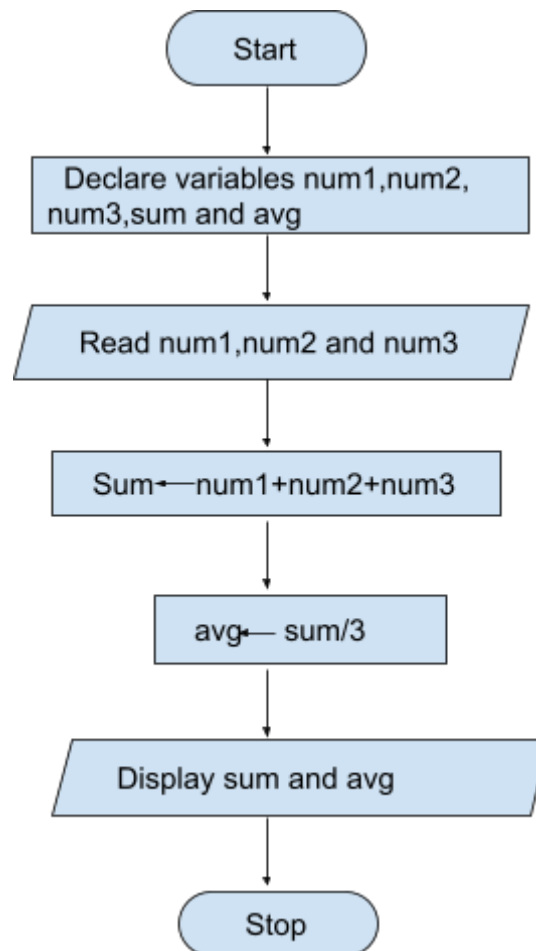
Step 4: Add the three values and store it in sum variable

Step 5: Divide the sum value by 3 and store it in avg

Step 6: Display sum and avg.

Step 7: End

FLOWCHART:



2. Write an algorithm and draw a flowchart to calculate the sum of each individual digit of a given positive integer value.

Ex:  $823 \Rightarrow 8+2+3 \Rightarrow 13$

Algorithm:

Step 1: Start

Step 2: Declare the variable num,r and initialize sum as 0.

Step 3: Read the value of num

Step 4: Check whether  $\text{num} > 0$ , if true move to step 5, if false move to step 8.

Step 5: Modulo the num value by 10 and store it in the r variable.

Step 5: Add sum and r value, store it in sum.

Step 6: Divide the num by 10 and store it in the num variable.

Step 7: Go to step 4.

Step 8: Display sum.

Step 9: Stop.

FLOWCHART:

