**Question 2**

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

Ex. 823 => 8+2+3 => 13

**Algorithm**

**Step1**

Start the program.

**Step 2**

Declare the variable num.

**Step 3**

Read the input value from the user and store it into num.

**Step 4**

Declare & initialize the sum value as zero.

**Step 5**

Check whether the given number is greater than zero,then go step 7.

**Step 6**

Check whether the given number is zero or less than zero,then go step 12 .

**Step 7**

Modulo divide(%) the num by 10 to get the remainder and add sum, then store it into sum

**Step 8**

Divide the num value by 10 and store it into num.

**Step 9**

Repeat the step 5 to step 8 until num value gets zero

**Step 10**

If the num value gets 0 then the (while) process will be terminated.

**Step 11**

Display the sum and go step 13.

**Step 12**

Display “Give positive value”.

**Step 13**

Stop

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