**Algorithm and flowchart:**

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

Ex:123 —> 1+2+3=6.

**Algorithm:**

**Step1:**

Start the program.

**Step 2:**

Declare the variable n and result.

**Step 3:**

Read the input from the user and store the value in n.

**Step 4:**

Initialize the result as 0.

**Step 5:**

Check whether the given number is greater (n) than 0 ,then go to step 6.

**Step 6**:

Modulo divide (%) by 10 and add the result,and then store it into the result.

**Step 7:**

Divide the n value with 10 and store it into the n.

**Step 8:**

Repeat the step 5 to step 7 until the n value gets 0.

**Step 9:**

If the n value gets 0 the process will get terminated and display Enter the correct value.

**Step 10:**

Display the result.

**Step 11:**

Stop.

**Flowchart:**

