Program to add two fractions

Algorithm:

1) Start
2) Read the value of numerator1, denominator1, numerator2, denominator 2
3) x = (numerator1 * denominator2) + (denominator1 * numerator2)
4) y = (denominator1 * denominator2)
5) for (c=1; c<= x && c <= y; c++), if this condition becomes false goto step 7
   5.1) if (x % c == 0 && y % c == 0), if this condition becomes false goto step 5
      5.1.1) gcd_no = c
6) Repeat the step 5 until the condition becomes false
7) Print "The added fraction" and display the two value of the condition x/gcd, y/gcd.
8) Stop

Program to find the no. of digits in an integer

Algorithm

1. Start
2. Initialize total digits = 0
3. Read the value of n
4. While (n!=0), if (n!=0) condition becomes false goto step 6
   - 4.1 n = n/10
   - 4.2 totaldigits++
5. Repeat the step 4 until the condition becomes false
6. Print "The total digits in the integer"
7. Stop

Flowchart