**Lab Task12:**

**To write a C/C++ program to generate a three-address code for a given expression.**

**ALGORITHM:**

Step1: Begin the program

Step2: The expression is read from the file using a file pointer

Step 3: Each string is read and the total no. of strings in the file is calculated.

Step4: Each string is compared with an operator; if any operator is seen then the previous string and next string are concatenated and stored in a first temporary value and the three address code expression is printed

Step 5: Suppose if another operand is seen then the first temporary value is concatenated to the next string using the operator and the expression is printed.

Step 6: The final temporary value is replaced with the left operand value.

Step 7: End the program.

**Input:** out = in1 + in2 + in3 - in4

**Output:**

t1=in1+in2

t2=t1+in3

t3=t2-in4

out=t3