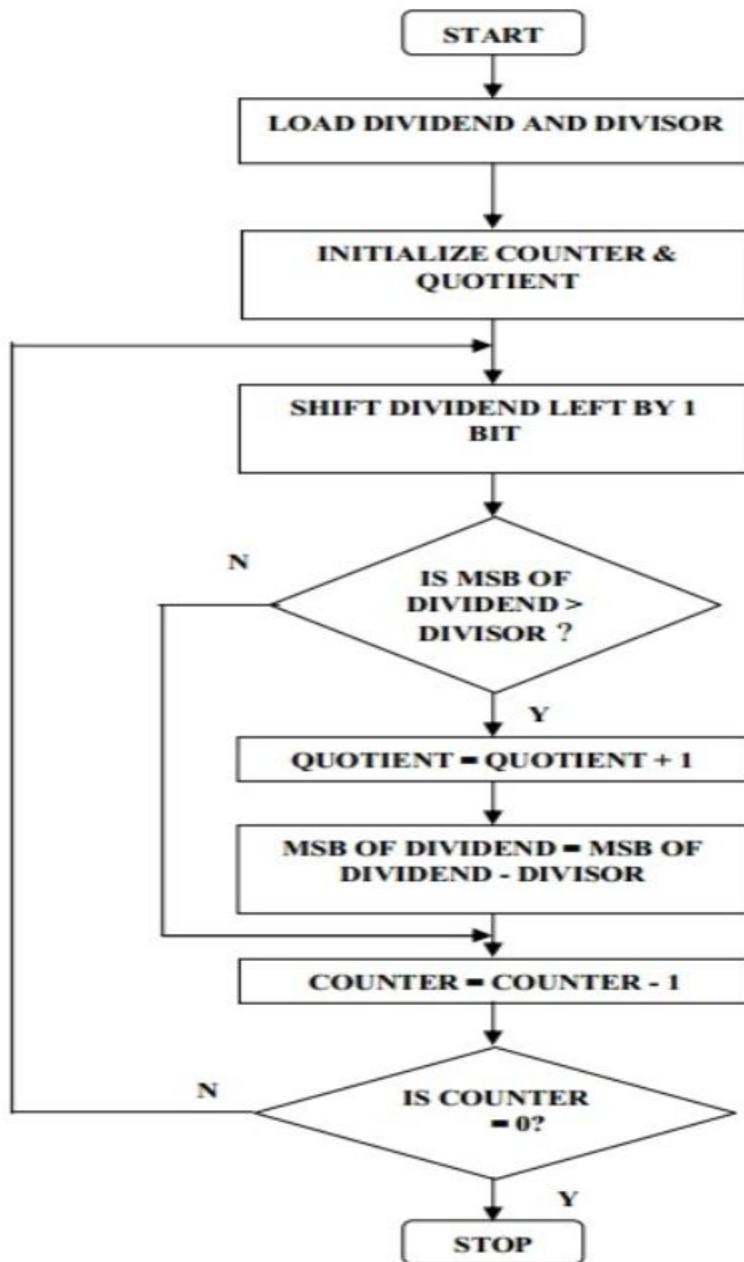


Experiment-3

Aim: Division of two 8 - bit numbers.

Algorithm:



Program:

```
; You may customize this and other start-up templates;  
; The location of this template is c:\emu8086\inc\0_com_template.txt  
  
org 100h  
  
; add your code here  
mov si, 1000h  
mov al, [si]  
mov bl, [si+2]  
div bl  
mov [si+4], al  
mov [si+5], ah  
hlt
```

Observation:

The screenshot displays an 8086 emulator interface with three main windows:

- Random Access Memory:** Shows a memory dump starting at address 0700:0110. The data at 07108 is F6 246, and at 07109 is F3 243. The instruction at 07110 is MOV [SI] + 04h, AL.
- emulator: noname.com:** The main emulator window. The registers window shows SI = 1000h and DS = 0700h. The instruction window shows the current instruction as MOV [SI] + 04h, AL.
- original source c...:** Shows the assembly source code. The instruction at line 12, MOV [si+4], al, is highlighted in yellow.

The source code in the third window is as follows:

```
01  
02 ; You may customize this  
03 ; The location of this t  
04  
05 org 100h  
06  
07 ; add your code here  
08 mov si, 1000h  
09 mov al, [si]  
10 mov bl, [si+2]  
11 div bl  
12 mov [si+4], al  
13 mov [si+5], ah  
14 hlt  
15  
16 ret  
17  
18  
19  
20  
21  
22  
23
```

