

EXPERIMENT – 4(A)

NAME :Rahul Goel

Reg no:RA1911030010094

AIM: Subtraction of two 8 bit numbers.

Code :

Data segment

a db 15h

b db 12h

c dw ?

data ends

code segment

assume cs: code, ds: data

start:

mov ax, data

mov ds,ax

mov al,a

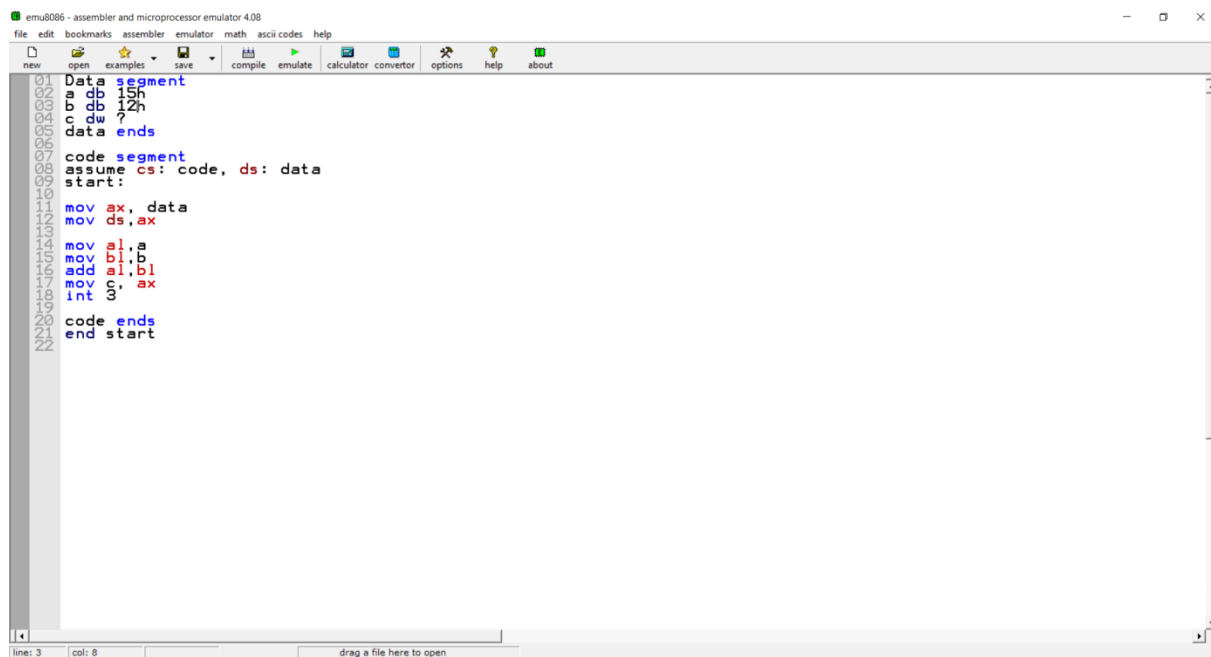
mov bl,b

sub al,bl

mov c, ax

int 3

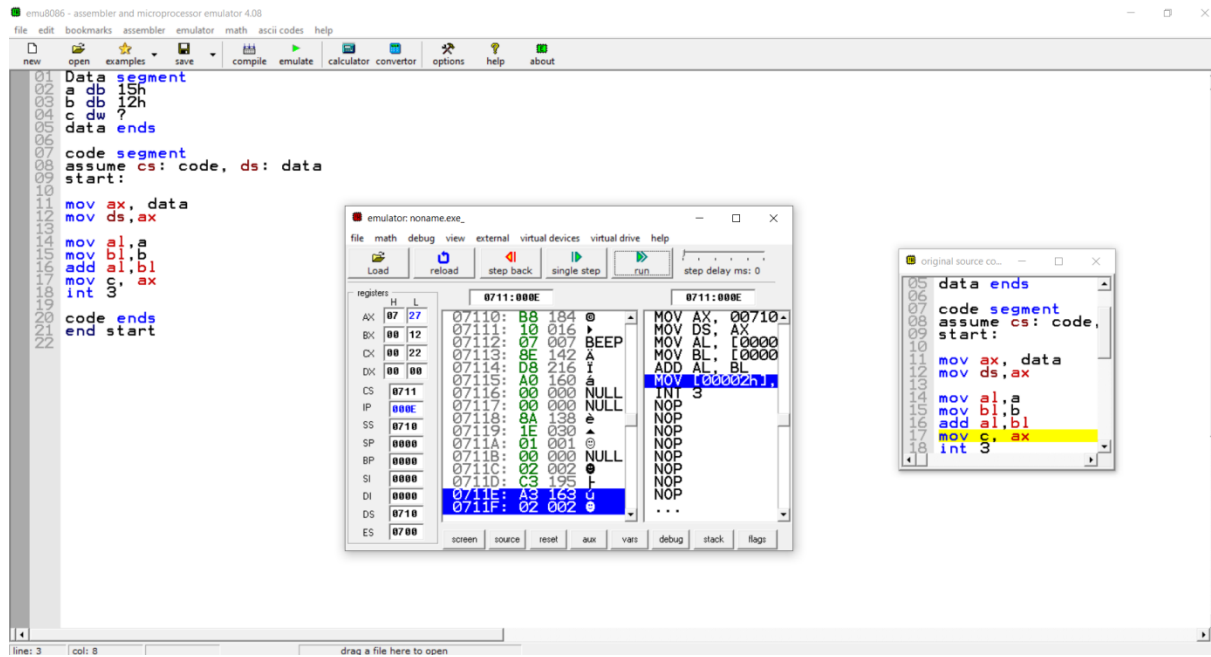
Code in EMU8086:



The screenshot shows the EMU8086 interface with the following assembly code:

```
01 Data segment
02 a db 12h
03 b db 12h
04 c dw ?
05 data ends
06
07 code segment
08 assume cs: code, ds: data
09 start:
10
11 mov ax, data
12 mov ds, ax
13
14 mov al, a
15 mov bl, b
16 add al, bl
17 mov c, ax
18 int 3
19
20 code ends
21 end start
22
```

Output :



AX value as 27(15+12)