

EXPERIMENT – 4(B)

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AIM: Subtraction of two 8 bit numbers.

Code :

Data segment

a db 30h

b db 20h

c dw ?

data ends

code segment

assume cs: code, ds: data

start:

mov ax, data

mov ds,ax

mov al,a

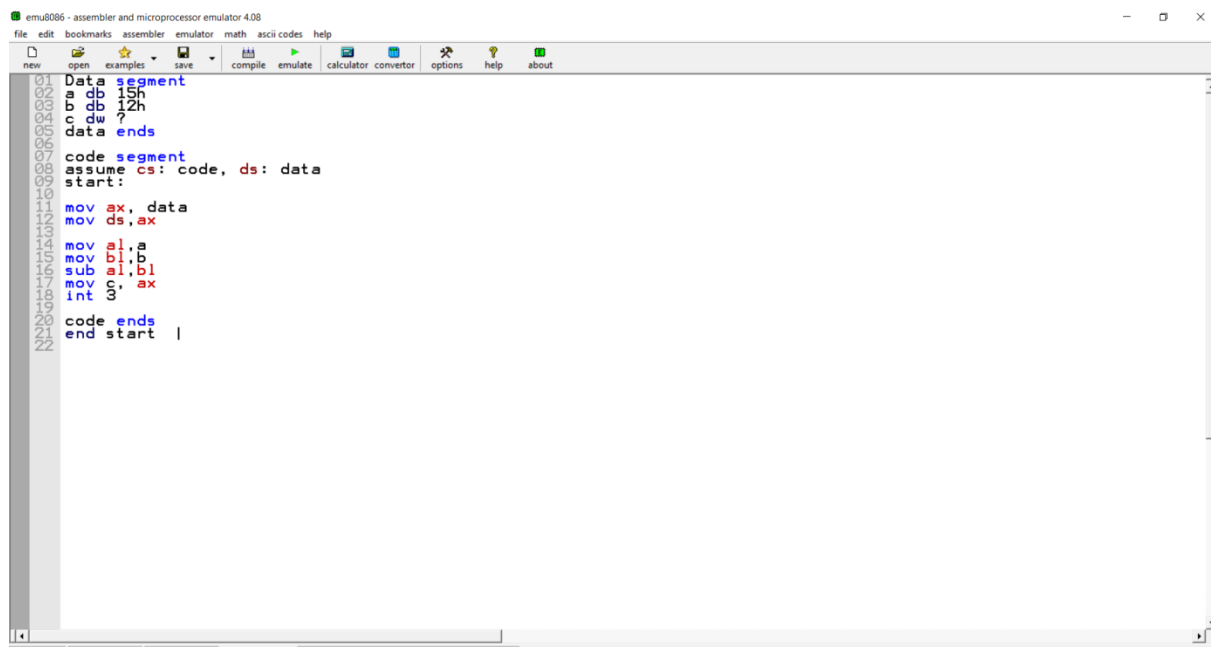
mov bl,b

sub al,bl

mov c, ax

int 3

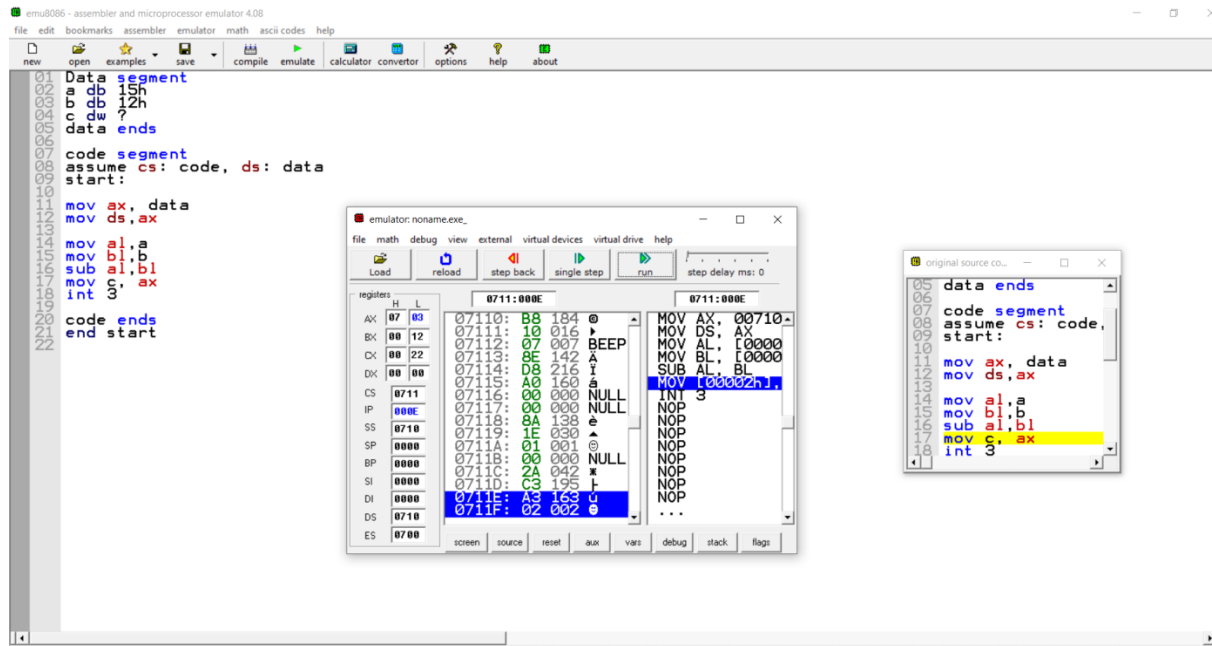
Code in EMU8086:



The screenshot shows the EMU8086 software interface. The title bar reads "emu8086 - assembler and microprocessor emulator 4.08". The menu bar includes "file", "edit", "bookmarks", "assembler", "emulator", "math", "ascii codes", and "help". The toolbar contains icons for "new", "open", "examples", "save", "compile", "emulate", "calculator", "converter", "options", "help", and "about". The main text area displays 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 sub al, bl
17 mov c, ax
18 int 3
19
20 code ends
21 end start
```

Output :



AX value as 10(30-20)