

EXPERMENT-5B

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Aim: SUBTRACTION OF TWO 16-BIT NUMBERS

Code:

data segment

N1 dw 4004h

N2 dw 1001h

Res dw ?

data ends

code segment

assume cs:code,ds:data

start:

mov ax,data

mov ds,ax

mov ax,N1

mov bx,N2

sub ax,bx

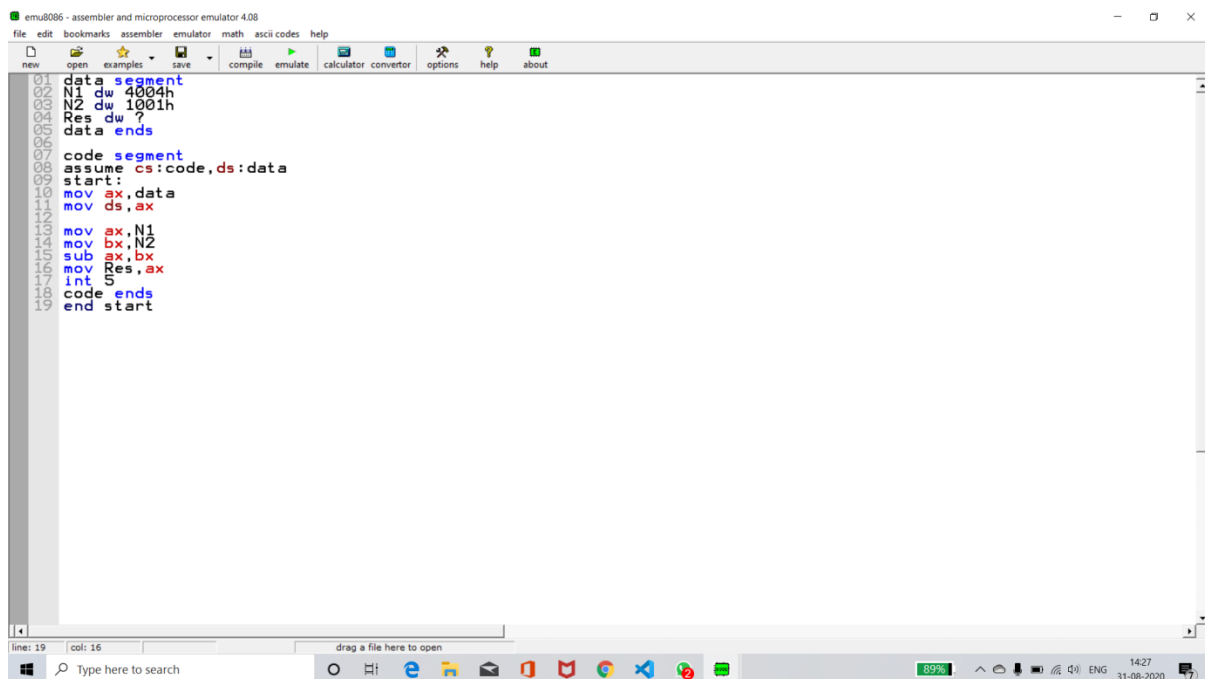
mov Res,ax

int 5

code ends

end start

Code in EMU8086:

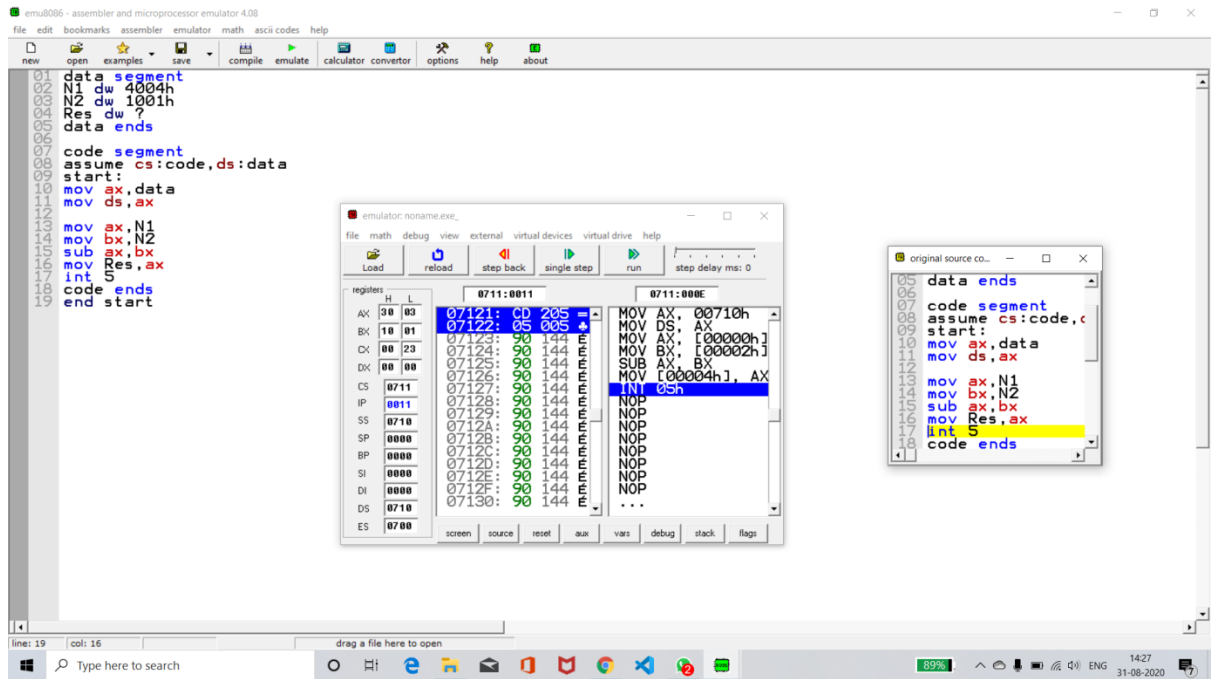


The screenshot shows the EMU8086 software window. The title bar reads "emu8086 - assembler and microprocessor emulator 4.08". The menu bar includes "file", "edit", "bookmarks", "assembler", "emulator", "math", "ascii codes", and "help". The toolbar contains icons for "new", "open", "examples", "save", "compile", "emulate", "calculator", "converter", "options", "help", and "about". The main text area displays the following assembly code:

```
01 data segment
02 N1 dw 4004h
03 N2 dw 1001h
04 Res dw ?
05 data ends
06
07 code segment
08 assume cs:code,ds:data
09 start:
10 mov ax,data
11 mov ds,ax
12
13 mov ax,N1
14 mov bx,N2
15 sub ax,bx
16 mov Res,ax
17 int 5
18 code ends
19 end start
```

The status bar at the bottom shows "line: 19", "col: 16", and a "drag a file here to open" prompt. The Windows taskbar is visible at the very bottom with the search bar and system tray.

Output:



AX value is 3003