

# EXPERMENT-5A

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Aim: ADDITION 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

add ax,bx

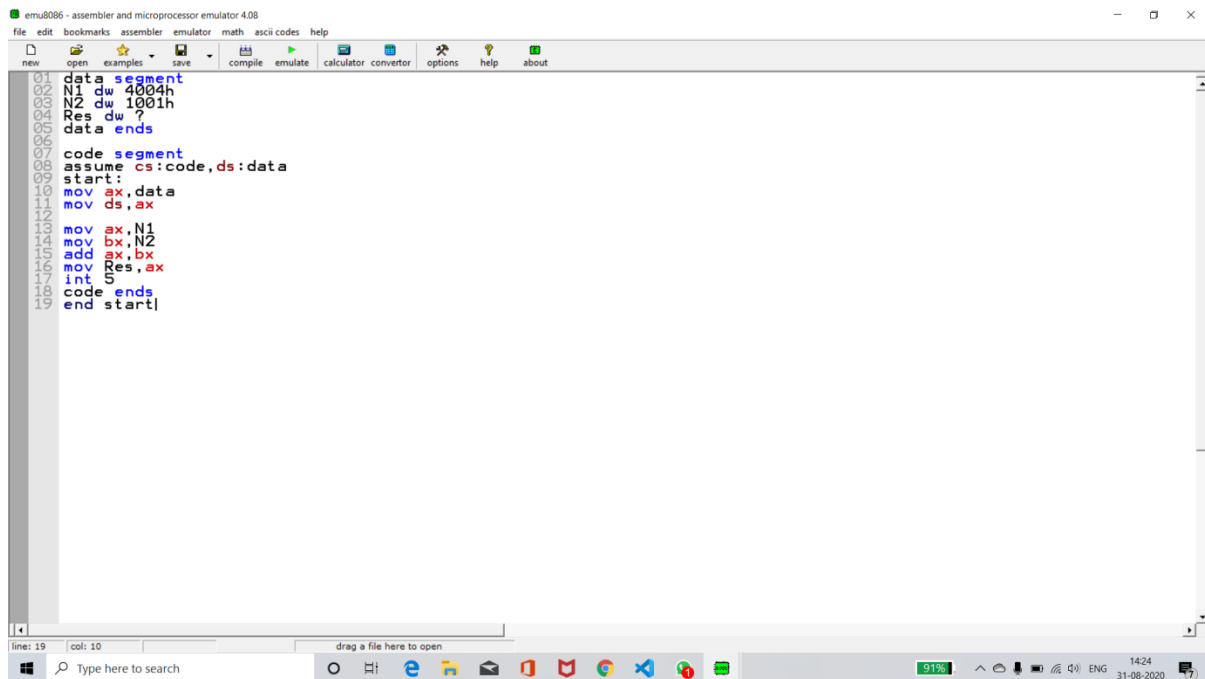
mov Res,ax

int 5

code ends

end start

## Code in EMU8086:

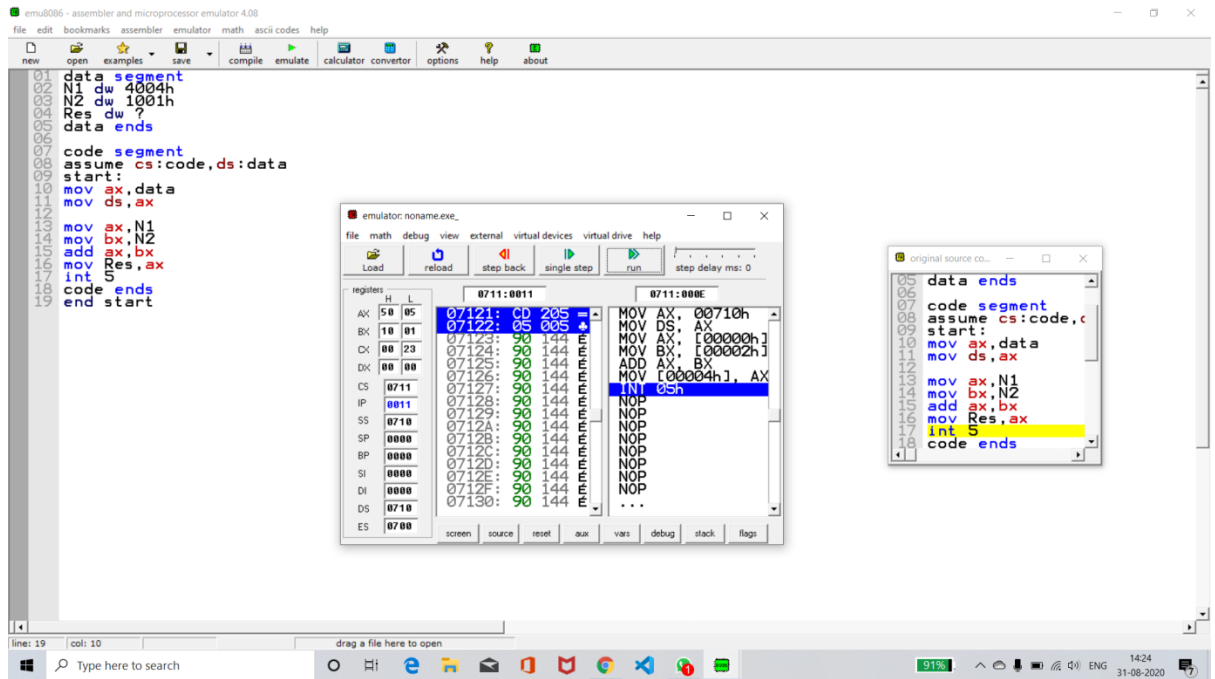


The screenshot shows the EMU8086 - assembler and microprocessor emulator 4.08 window. The assembly code is as follows:

```
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 add ax,bx
16 mov Res,ax
17 int 5
18 code ends
19 end start
```

The status bar at the bottom indicates line 19, column 10. The Windows taskbar shows the system clock as 14:24 on 31-08-2020.

Output:



AX value is 5005