Lab10

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Problem1

```
a. AL = 0019FF2D ZF = 0 SF = 1
b. AL = 0019FF48 ZF = 0 SF = 1
c. AL = 0019FF6F ZF = 0 SF = 1
d. AL = 0019FFA3 ZF = 0 SF = 1 PF = 1
```

Yes changed. After 'and, or, xor' are operated, the result will be stored in the destination operand.

Therefore, the value of al which is the destination operand is changed.

Problem2

a.
$$CF = 0$$
 $ZF = 0$ $SF = 0$ $al = 0019FF0F$
b. $CF = 0$ $ZF = 0$ $SF = 0$ $bl = 00231006$
c. $CF = 1$ $ZF = 0$ $SF = 1$ $cl = 00401005$

Test: no change

Cmp: no change

The two instructions – test and cmp – are not destructive subtraction of source from destination.

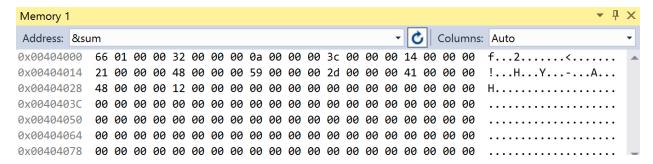
Therefore, the result value of destination operand is not changed.

Problem3

```
AddTwo.asm ₽ X
                                                           Registers
         ; AddTwo.asm - adds two 32-bit integers.
                                                       #
                                                            EAX = 0019FF32 EBX = 00315064
          ; Chapter 3 example
                                                              ECX = 00401032 EDX = 00401005
                                                               ESI = 00401005
      3
      4
         .386
                                                              EDI = 00401005 EIP = 00401022
         .model flat,stdcall
                                                               ESP = 0019FF74
         .stack 4096
                                                              EBP = 0019FF80 EFL = 00000202
      7
         ExitProcess proto,dwExitCode:dword
      8
         .data
      9
                                                            OV = 0 UP = 0 EI = 1 PL = 0
     10
         .code
                                                              ZR = 0 AC = 0 PE = 0 CY = 0
     11
         main proc
     12
             mov al,255
     13
             mov bl,100
     14
             mov cl,50
     15
             cmp bl,cl
     16
             jl J1
     17
     18
             mov al,50
     19
             jmp J2
     20
     21
         J1:
     22
             mov d1,23
     23
             sub al,dl
     24
     25 J2:
     26
             invoke ExitProcess,0 ≤1ms elapsed
     27
         main endp
     28
         end main
                                                            Registers
                                                                    Autos Locals
100 % ▼ ◀
```

Final value of al: 0019FF32

Problem4



Sum: 00000166