COAL

LABO2

23K2001

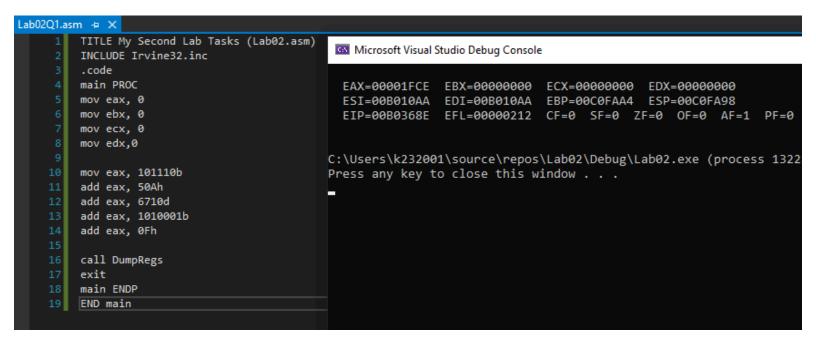
BCS-3J

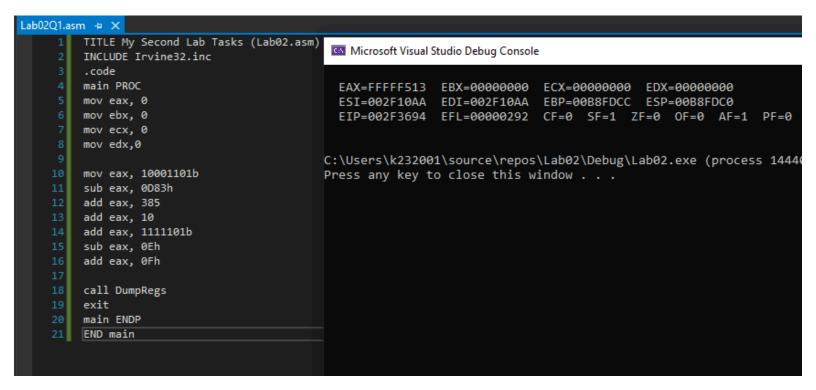


# Part 1:

```
_ab02Q1.asm     ⊅     X
        TITLE My Second Lab Tasks (Lab02.asm)
                                              Microsoft Visual Studio Debug Console
        INCLUDE Irvine32.inc
        .code
        main PROC
                                               EAX=00000149 EBX=00000055 ECX=00000040 EDX=00000000
        mov eax, 0
                                               FST=008210AA
                                                              EDI=008210AA
                                                                             EBP=012FFC5C ESP=012FFC50
                                                                             CF=0 SF=0 ZF=0 OF=0 AF=1 PF=0
                                               EIP=008236A0
                                                              EFL=00000212
        mov ecx, 0
        mov edx,0
                                             C:\Users\k232001\source\repos\Lab02\Debug\Lab02.exe (process 8052) exited with code 0.
                                             Press any key to close this window . . .
        mov eax, 47
        mov ecx, 60
        add eax, ebx
        add eax, ecx
        mov ebx, 85
        mov ecx, 64
        add eax, ebx
        add eax, ecx
        add eax, 54o
        sub eax, 0Ah
        call DumpRegs
        main ENDP
        END main
```

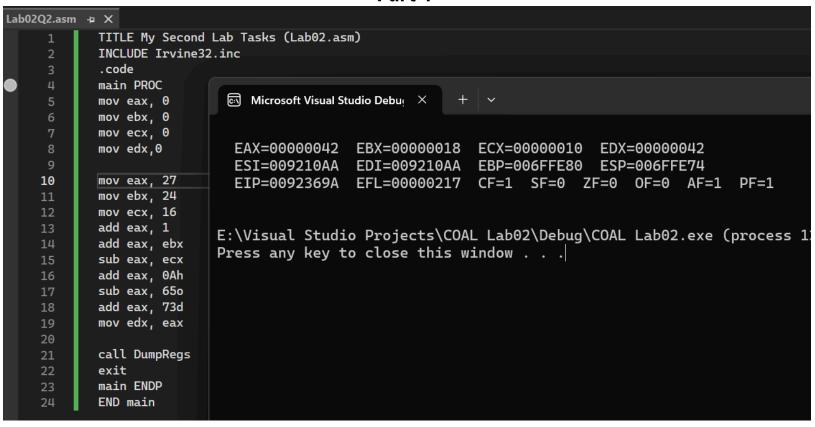
```
TITLE My Second Lab Tasks (Lab02.asm)
INCLUDE Irvine32.inc
                                      Microsoft Visual Studio Debug Console
.code
main PROC
                                       EAX=00000039 EBX=000000000 ECX=000000000 EDX=000000000
mov eax, 0
                                                      EDI=006310AA
                                                                      EBP=010FFB9C ESP=010FFB90
                                       ESI=006310AA
mov ebx, 0
                                                      EFL=00000206 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=1
                                       EIP=0063368B
mov edx,0
                                     C:\Users\k232001\source\repos\Lab02\Debug\Lab02.exe (process 15572) exited with code 0.
mov eax, 30
                                     Press any key to close this window . . .
sub eax, 9
add eax, 186
sub eax, 150
call DumpRegs
exit
main ENDP
END main
```



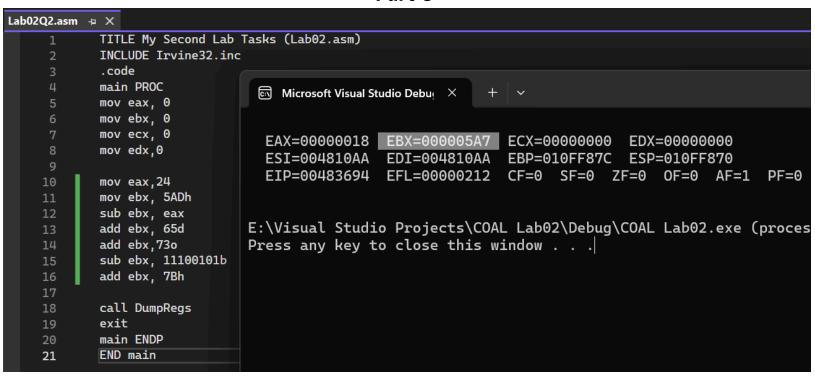


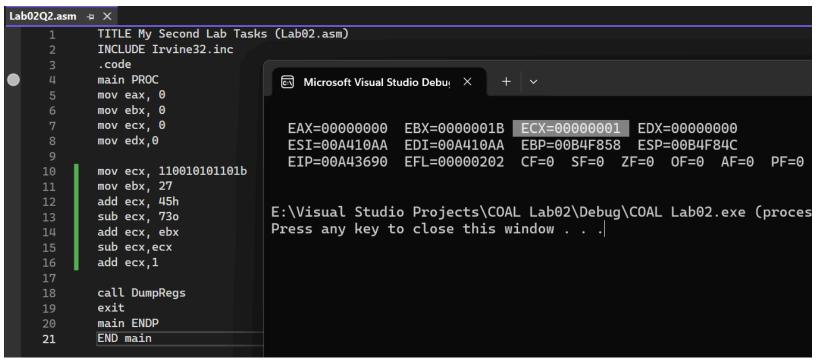
# **Q2**:

## Part 1:



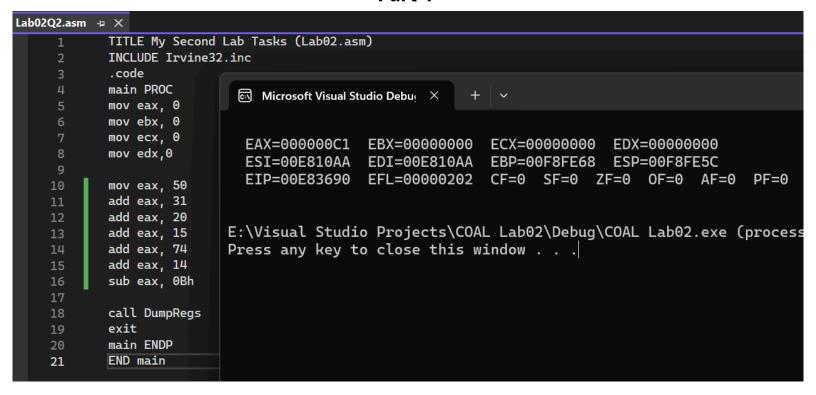
```
Lab02Q2.asm + ×
            TITLE My Second Lab Tasks (Lab02.asm)
            INCLUDE Irvine32.inc
            . code
            main PROC
                                 Microsoft Visual Studio Debug X
            mov eax, 0
            mov ebx, 0
            mov ecx, 0
                                  EAX=000005AA
                                                  EBX=00000018
                                                                   ECX=00000000
                                                                                   EDX=00000000
            mov edx,0
                                  ESI=006010AA
                                                  EDI=006010AA
                                                                   EBP=007CFB80
                                                                                   ESP=007CFB74
                                  EIP=00603695
                                                  EFL=00000206
                                                                   CF=0
                                                                          SF=0
                                                                                 ZF=0
                                                                                       0F=0
                                                                                              AF=0
                                                                                                     PF=1
            mov eax,5ADh
    11
            mov ebx, 24
            sub eax, ebx
    12
                                E:\Visual Studio Projects\COAL Lab02\Debug\COAL Lab02.exe (proces
            add eax, 65o
    13
                                Press any key to close this window . . .
            add eax, 65d
            sub eax, 11110111b
            add eax, 150
    17
            call DumpRegs
            exit
            main ENDP
            END main
    21
```



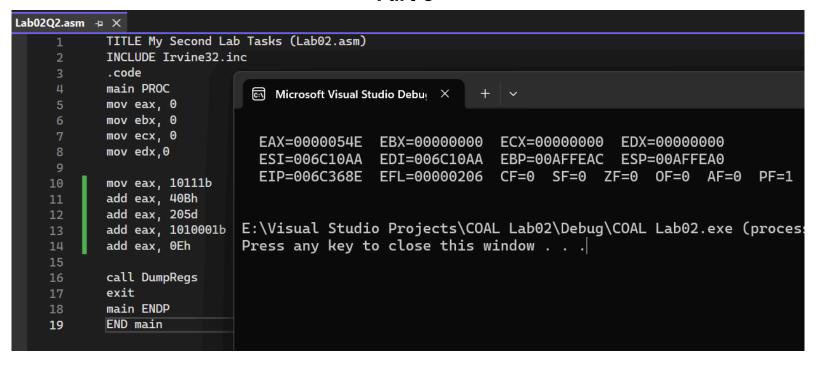


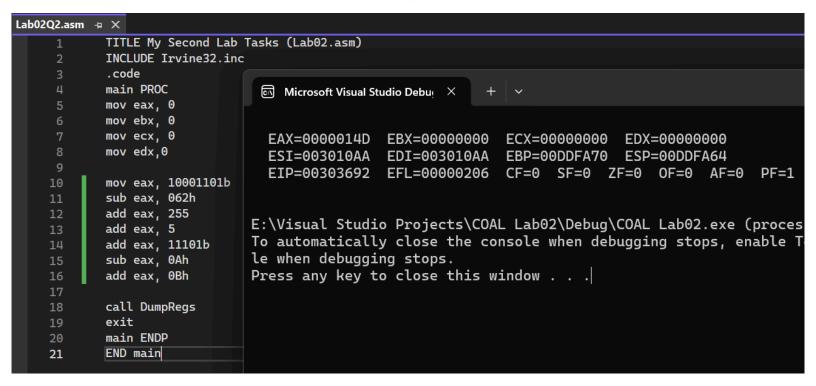
## Task01:

### Part 1:



```
Lab02Q2.asm → X
           TITLE My Second Lab Tasks (Lab02.asm)
           INCLUDE Irvine32.inc
           . code
           main PROC
                           mov eax, 0
           mov ebx, 0
           mov ecx, 0
                            EAX=00000038
                                          EBX=00000000
                                                          ECX=00000000
                                                                         EDX=00000000
           mov edx,0
                            ESI=006310AA
                                           EDI=006310AA
                                                          EBP=009AFC48
                                                                         ESP=009AFC3C
                            EIP=0063368B
                                          EFL=00000202
                                                          CF=0 SF=0 ZF=0
                                                                             OF=0 AF=0
                                                                                          PF=0
           mov eax, 10
           sub eax, 4
    11
           add eax, 200
    12
                         E:\Visual Studio Projects\COAL Lab02\Debug\COAL Lab02.exe (process
    13
           sub eax, 150
                         Press any key to close this window . . .
           call DumpRegs
           exit
           main ENDP
    17
    18
           END main
```





## Part 5:

```
Lab02Q2.asm ₽ X
           TITLE My Second Lab Tasks (Lab02.asm)
           INCLUDE Irvine32.inc
           . code
           main PROC
                               Microsoft Visual Studio Debug X
           mov eax, 0
           mov ebx, 0
           mov ecx, 0
                                EAX=0000004A
                                                EBX=00000000
                                                                ECX=00000000
                                                                               EDX=00000000
           mov edx,0
                                ESI=00D010AA
                                                EDI=00D010AA
                                                                EBP=00E0FEB8
                                                                               ESP=00E0FEAC
                                EIP=00D0368B
                                                EFL=00000212
                                                                CF=0 SF=0 ZF=0
                                                                                    OF=0 AF=1
                                                                                                  PF=0
           mov eax, 1110b
    11
           sub eax, 7
           add eax, 1B2h
    12
                              E:\Visual Studio Projects\COAL Lab02\Debug\COAL Lab02.exe (proces
           sub eax, 557o
                             Press any key to close this window . . .
           call DumpRegs
           exit
    17
           main ENDP
    18
           END main
```

# Task02:

## Part 1:

