RAVI SAJJANAR (1BM19CS127)

CODE_1
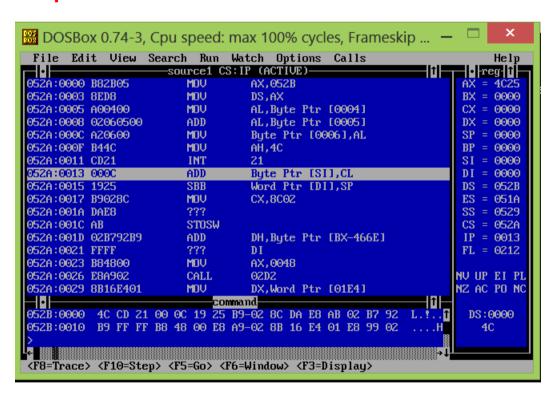
```
C:\MASM\SAME.ASM
.MODEL SMALL
.DATA
A DB 12
B DB 25
C DB ?
.CODE
      MOV AX,@DATA
      MOV DS,AX

      MOV AL,A
      ADD AL,B
      MOV C,AL
      MOV AH,4CH
      INT 21H
      END
```

Output

```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip ...
 File  Edit  View  Search  Run  Watch  Options  Calls          Help
              source1 CS:IP (ACTIVE)                          reg
052A:0000 B82B05        MOV      AX,052B                  AX = 4C25
052A:0003 8ED8          MOV      DS,AX                    BX = 0000
052A:0005 A00400        MOV      AL,Byte Ptr [0004]       CX = 0000
052A:0008 02060500      ADD      AL,Byte Ptr [0005]       DX = 0000
052A:000C A20600        MOV      Byte Ptr [0006],AL       SP = 0000
052A:000F B44C          MOV      AH,4C                    BP = 0000
052A:0011 CD21          INT      21                       SI = 0000
052A:0013 000C          ADD      Byte Ptr [SI],CL         DI = 0000
052A:0015 1925          SBB      Word Ptr [DI],SP         DS = 052B
052A:0017 B9028C        MOV      CX,8C02                  ES = 051A
052A:001A DAE8          ???                               SS = 0529
052A:001C AB            STOSW                             CS = 052A
052A:001D 02B792B9      ADD      DH,Byte Ptr [BX-466E]    IP = 0013
052A:0021 FFFF          ???      DI                       FL = 0212
052A:0023 B84800        MOV      AX,0048
052A:0026 E8A902        CALL     02D2                 NV UP EI PL
052A:0029 8B16E401      MOV      DX,Word Ptr [01E4]   NZ AC PO NC
                        command
052B:0000  4C CD 21 00 0C 19 25 B9-02 8C DA E8 AB 02 B7 92  L.!..    DS:0000
052B:0010  B9 FF FF B8 48 00 E8 A9-02 8B 16 E4 01 E8 99 02  ....H       4C
>
 <F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>
```

PROGRAM_2

CODING PART

```
.MODEL SMALL
.DATA
A DW 1234
B DW 2567
C DW ?
.CODE
    MOV AX,@DATA
    MOV DS,AX

    MOV AX,A
    ADD AX,B
    MOV C,AX
    MOV AH,4CH
    INT 21H
    END
```

OUTPUT

```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip ...    —  □    ×
  File  Edit  View  Search  Run  Watch  Options  Calls                Help
||·||         source1 CS:IP (ACTIVE)            ||↑||  ||·|regi-|↑|
052A:0000 B82B05      MOV     AX,052B              ↑   AX = 4CD9
052A:0003 8ED8        MOV     DS,AX                    BX = 0000
052A:0005 A10400      MOV     AX,Word Ptr [0004]    ;BR CX = 0000
052A:0008 03060600    ADD     AX,Word Ptr [0006]       DX = 0000
052A:000C A30800      MOV     Word Ptr [0008],AX       SP = 0000
052A:000F B44C        MOV     AH,4C                    BP = 0000
052A:0011 CD21        INT     21                       SI = 0000
052A:0013 00D2        ADD     DL,DL                    DI = 0000
052A:0015 0407        ADD     AL,07                    DS = 052B
052A:0017 0AD9        OR      BL,CL                    ES = 051A
052A:0019 0E          PUSH    CS                       SS = 0529
052A:001A DAE8        ???                              CS = 052A
052A:001E B792        MOV     BH,92                    IP = 0013
052A:0020 B9FFFF      MOV     CX,FFFF                  FL = 0202
052A:0023 B84800      MOV     AX,0048
052A:0026 E8A902      CALL    02D2                     NV UP EI PL
052A:0029 8B16E401    MOV     DX,Word Ptr [01E4]       NZ NA PO NC
052A:002D E89902      CALL    02C9
052A:0030 B792        MOV     BH,92
052A:0032 B9FFFF      MOV     CX,FFFF
052A:0035 B82000      MOV     AX,0020
←                                          →↓
  <F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>
```