DOS COMMAND TO ASSEMBLING AND DEBUGE THE ASM FILE


```
Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>mount x D://DOS
Drive X is mounted as local directory D://DOS\

Z:\>x:/

X:\>nasm p559_1.asm -0 p559_1.com
nasm: error: unrecognised option `-0'
nasm: error: more than one input file specified
type `nasm -h' for help

X:\>nasm p559_1.asm -o p559_1.com

X:\>afd p559_1

AFD-Pro is done

X:\>afd p559_1.com

AFD-Pro is done

X:\>_
```



```
type `nasm -h' for help

X:\>nasm p559_1.asm -o p559_1.com

X:\>afd p559_1

AFD-Pro is done

X:\>afd p559_1.com

AFD-Pro is done

X:\>nasm p559_2.asm -o p559_2.com

X:\>afd p559_2.com

AFD-Pro is done

X:\>nasm p559_3.asm -o p559_3.com

X:\>afd p559_3.com

AFD-Pro is done

X:\>_
```

TASK: 01


```
DOSBox 0.74-3, Cpu speed:    3000 cycles, Frameskip 0, Progra...    —    □    ×

AX 1234   SI 0000   CS 19F5   IP 010C      Stack +0 0000   Flags 7200
BX ABFC   DI 0000   DS 19F5                      +2 20CD
CX B100   BP 0000   ES 19F5   HS 19F5            +4 9FFF   OF DF IF SF ZF AF PF CF
DX B800   SP FFFE   SS 19F5   FS 19F5            +6 EA00    0  0  1  0  0  0  0  0

CMD >                                      1       0  1  2  3  4  5  6  7
                                           DS:0100 B8 34 12 BB FC AB B9 00
0109 BA00B8        MOV    DX,B800           DS:0108 B1 BA 00 B8 01 D8 B8 00
010C 01D8          ADD    AX,BX             DS:0110 4C CD 21 04 31 D2 31 C0
010E B8004C        MOV    AX,4C00           DS:0118 89 56 E4 89 46 E6 C7 46
0111 CD21          INT    21                DS:0120 F6 00 00 8B 46 F6 D1 E0
0113 0431          ADD    AL,31             DS:0128 D1 E0 C5 5E D8 01 C3 8B
0115 D2            DB     D2                DS:0130 07 8B 57 02 85 D2 75 04
0116 31C0          XOR    AX,AX             DS:0138 85 C0 74 1C C7 46 DC 00
0118 8956E4        MOV    [BP-1C],DX        DS:0140 00 8E 5E FC 83 7D 0E 00
011B 8946E6        MOV    [BP-1A],AX        DS:0148 74 09 8B 46 F2 48 3B 46

2         0  1  2  3  4  5  6  7   8  9  A  B  C  D  E  F
DS:0000  CD 20 FF 9F 00 EA F0 FE  AD DE 1B 05 C5 06 00 00   = ƒ.Ω≡■  ¡|..+...
DS:0010  18 01 10 01 18 01 92 01  01 01 01 00 02 FF FF FF   ......ft.  .....
DS:0020  FF FF FF FF FF FF FF FF  FF FF FF FF EB 19 C0 11           δ.└.
DS:0030  A2 01 14 00 18 00 F5 19  FF FF FF FF 00 00 00 00   ó.....J.      ...
DS:0040  05 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........  ........

1  Step   2ProcStep 3Retrieve 4Help ON  5BRK Menu 6        7 up  8 dn  9 le 10 ri
```

Task: 02


```
DOSBox 0.74-3, Cpu speed:    3000 cycles, Frameskip 0, Progra...    —    □    ×

AX FFFF   SI 0000   CS 19F5   IP 0111      Stack +0 0000   Flags 7200
BX 000A   DI 0000   DS 19F5                      +2 20CD
CX 000A   BP 0000   ES 19F5   HS 19F5            +4 9FFF   OF DF IF SF ZF AF PF CF
DX 0005   SP FFFE   SS 19F5   FS 19F5            +6 EA00    0  0  1  0  0  0  0  0

CMD >                                      1       0  1  2  3  4  5  6  7
                                           DS:0100 B3 0A BA 05 00 88 D9 89
010E B8FFFF        MOV    AX,FFFF           DS:0108 D0 B0 12 B8 34 12 B8 FF
0111 B8004C        MOV    AX,4C00           DS:0110 FF B8 00 4C CD 21 31 C0
0114 CD21          INT    21                DS:0118 89 56 E4 89 46 E6 C7 46
0116 31C0          XOR    AX,AX             DS:0120 F6 00 00 8B 46 F6 D1 E0
0118 8956E4        MOV    [BP-1C],DX        DS:0128 D1 E0 C5 5E D8 01 C3 8B
011B 8946E6        MOV    [BP-1A],AX        DS:0130 07 8B 57 02 85 D2 75 04
011E C746F60000    MOV    [BP-0A],0000      DS:0138 85 C0 74 1C C7 46 DC 00
0123 8B46F6        MOV    AX,[BP-0A]        DS:0140 00 8E 5E FC 83 7D 0E 00
0126 D1E0          SHL    AX,1              DS:0148 74 09 8B 46 F2 48 3B 46

2         0  1  2  3  4  5  6  7   8  9  A  B  C  D  E  F
DS:0000  CD 20 FF 9F 00 EA F0 FE  AD DE 1B 05 C5 06 00 00   = ƒ.Ω≡■  ¡|..+...
DS:0010  18 01 10 01 18 01 92 01  01 01 01 00 02 FF FF FF   ......ft.  .....
DS:0020  FF FF FF FF FF FF FF FF  FF FF FF FF EB 19 C0 11           δ.└.
DS:0030  A2 01 14 00 18 00 F5 19  FF FF FF FF 00 00 00 00   ó.....J.      ...
DS:0040  05 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00   ........  ........

1  Step   2ProcStep 3Retrieve 4Help ON  5BRK Menu 6        7 up  8 dn  9 le 10 ri
```

Task:03


```
AX 0024    SI 0000    CS 19F5    IP 0112    Stack +0 0000    Flags 7214
BX 0000    DI 0000    DS 19F5               +2 20CD
CX 001A    BP 0000    ES 19F5    HS 19F5    +4 9FFF    OF DF IF SF ZF AF PF CF
DX 0000    SP FFFE    SS 19F5    FS 19F5    +6 EA00     0  0  1  0  0  1  1  0

CMD >                                    1        0  1  2  3  4  5  6  7
                                         DS:0000  CD 20 FF 9F 00 EA F0 FE
010F 050600        ADD    AX,0006        DS:0008  AD DE 1B 05 C5 06 00 00
0112 050600        ADD    AX,0006        DS:0010  18 01 10 01 18 01 92 01
0115 B8004C        MOV    AX,4C00        DS:0018  01 01 01 00 02 FF FF FF
0118 CD21          INT    21             DS:0020  FF FF FF FF FF FF FF FF
011A E489          IN     AL,[89]        DS:0028  FF FF FF FF EB 19 C0 11
011C 46            INC    SI             DS:0030  A2 01 14 00 18 00 F5 19
011D E6C7          OUT    [C7],AL        DS:0038  FF FF FF FF 00 00 00 00
011F 46            INC    SI             DS:0040  05 00 00 00 00 00 00 00
0120 F60000        TEST   [BX+SI],00     DS:0048  00 00 00 00 00 00 00 00

2        0  1  2  3  4  5  6  7    8  9  A  B  C  D  E  F
DS:0000  CD 20 FF 9F 00 EA F0 FE   AD DE 1B 05 C5 06 00 00    = ƒ.Ω≡■  ¡|..†...
DS:0010  18 01 10 01 18 01 92 01   01 01 01 00 02 FF FF FF    .....ff.    .....
DS:0020  FF FF FF FF FF FF FF FF   FF FF FF FF EB 19 C0 11               δ.└.
DS:0030  A2 01 14 00 18 00 F5 19   FF FF FF FF 00 00 00 00    ó.....J.    ....
DS:0040  05 00 00 00 00 00 00 00   00 00 00 00 00 00 00 00    ........    ........

1  Step   2ProcStep 3Retrieve 4Help ON 5BRK Menu 6        7 up  8 dn  9 le 10 ri
```