```
        page    60,132
TITLE  A04ASM1      (COM)   Move and add operations plus display
       .MODEL SMALL
       .CODE
       ORG 100H
BEGIN: JMP MAIN
; -------------------------------------------------------
FLDD   DW    0AH
FLDE   DW    0F120H
FLDF   DW    ?
; -------------------------------------------------------
MAIN   PROC   NEAR
              MOV    AX, CS
              MOV    DS, AX          ; - init DS by CS

              MOV    AX, FLDD
              ADD    AX, FLDE
              MOV    FLDF, AX        ; - FLDF = FLDD + FLDE

              MOV    CX, 2           ; - 2 byte, 2 loop
              LEA    DI, FLDF
              ADD    DI, CX          ; - for load byte of FLDF
A10PRINTLOOP:
              DEC    DI
              MOV    DH, [DI]        ; - load 1 byte of FLDF
              MOV    BX, 2           ; - 1 byte need 2 character,
                                     ; so, 2 print loop
A20LOADDL:
              MOV    DL, 11110000B
              AND    DL, DH          ; - load upper 4 bit into DL

              MOV    AH, CL
              MOV    CL, 4
              SHR    DL, CL
              MOV    CL, AH          ; - shift DL's bit to bottom

              CMP    DL, 10          ; - 0~9 or A~F
              JB     ARABIT
              JMP    ALPHABET
ARABIT:
              ADD    DL, 30H
```

```
              JMP    A30PRINTDL
ALPHABET:
              ADD    DL, 37H
              JMP    A30PRINTDL
A30PRINTDL:
              MOV    AH, 02H
              INT    21H                ; - print DL character

              MOV    AH, CL
              MOV    CL, 4
              SHL    DH, CL
              MOV    CL, AH             ; - shift DH left 4 bit to reuse above
                                        ; DL 4bit loadding codes.

              DEC    BX
              JNZ    A20LOADDL      ; - loop for loading twise
                                     ; (2 character per 1 byte)

              LOOP   A10PRINTLOOP

              MOV    AX,      4C00H
              INT    21H
MAIN   ENDP

       END    BEGIN
```