ASCII

```
. model small
. data
msg1 db 0dh, 0ah, "Enter alphanumeric character: $"
res db 02 dup(0)


.code
mov ax, @ data
mov ds, ax
lea dx, msg1
call disp
mov ah, 01h
int 21h
Mov bl, al
Mov cl, 4
Shr al, cl
cmp al, 0ah
jc digit
add al, 07h
digit: add al, 30h
       mov res, al
       and bl, 0fh
       cmp bl, 0ah
       jc digit1
       add bl, 07h
digit1: add bl, 30h
        Mov Res+1, bl


        mov ah, 00h
        mov al, 03h  ; Text mode
```

```asm
        int 10h

        Mov ah,02h ;  set cursor position
        mov bh,00h ;  page number
        mov dh,0ch ;     row value
        mov dl,28h ;   column value
        int 10h

        mov res+2 '$'
        lea dx,res
        call disp
        mov ah,4ch
        int 21h

disp proc near
        mov ah,09h
        int 21h
        ret
disp endp
end
```