.model small

.data

var db 0ACh

msg db 10,13,"hex value$"

msg1 db 10,13," $"

pri macro msg

mov dx,offset msg

mov ah,09h

int 21h

endm

.code

mov ax,@data

mov ds,ax

mov bh,var

mov cl,04h

rol bh,cl

and bh,0fh

cmp bh,09h

jc prin

add bh,07h

prin:

add bh,30h

mov ch,bh

and ch,0fh

mov cl,04h

rol bh,cl

and bh,0fh

pri msg

pri msg1

add bh,30h

mov dl,bh

mov ah,02h

int 21h

add ch,30h

mov dl,ch

mov ah,02h

int 21h

mov dl,10

mov ah,02h

int 21h

mov dl,13

mov ah,02h

int 21h

mov bl,00h

mov bl,var

and bl,0fh

cmp bl,09h

jc prin1

add bl,07h

prin1:

add bl,30h

mov ch,bl

and ch,0fh

mov cl,04h

rol bl,cl

and bl,0fh

add bl,30h

mov dl,bl

mov ah,02h

int 21h

add ch,30h

mov dl,ch

mov ah,02h

int 21h

mov ah,4ch

int 21h

end