LAB3:DISPLAY EQUIVALENT ASCII CODE

; PROGRAM :: PROGRAM TO READ AN ALPHANUMERIC CHARACTER AND DISPLAY ITS

; EQUIVALENT ASCII CODE

```
.model small

.data

msg1 db 0dh,0ah," enter alpha numeric 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

        add bl,0fh

        cmp bl,0ah

        jc digit1
```

```asm
        add bl,07h
digit1: add bl,30h
        mov res+1,bl

        mov ah,00h
        mov al,03h
        int 10h

        mov ah,02h
        mov bh,00h
        mov dh,0ch
        mov dl,28h
        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
```
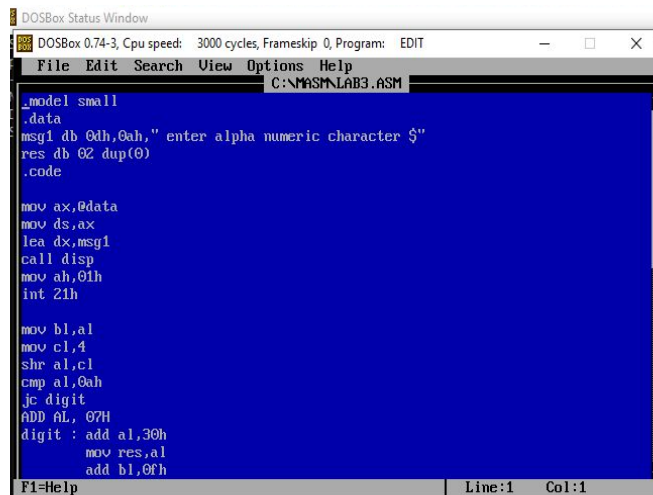
PROGRAM:
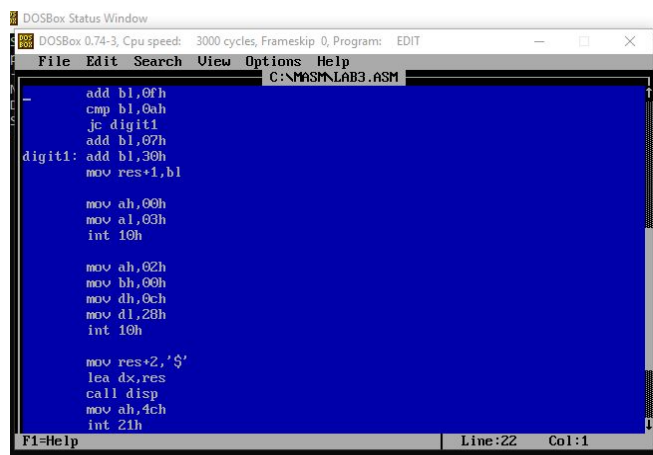
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.data
msg1 db 0dh,0ah," enter alpha numeric character $"
res db 02 dup(0)
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call disp
mov ah,01h
int 21h

mov bl,al
mov cl,4
shr al,cl
cmp al,0ah
jc digit
ADD AL, 07H
digit : add al,30h
        mov res,al
        add bl,0fh
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        add bl,0fh
        cmp bl,0ah
        jc digit1
        add bl,07h
digit1: add bl,30h
        mov res+1,bl

        mov ah,00h
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        mov dl,28h
        int 10h

        mov res+2,'$'
        lea dx,res
        call disp
        mov ah,4ch
        int 21h
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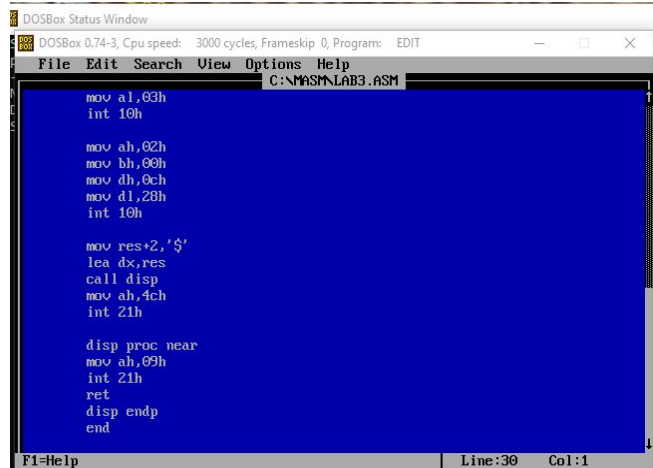
```
        mov al,03h
        int 10h

        mov ah,02h
        mov bh,00h
        mov dh,0ch
        mov dl,28h
        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
```

output:

1BM19CS216