

S.R. POOJA
18M19CS135

ASCII

• MODEL SMALL

• DATA

MSG1 DB 0DH, 0AH

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

INT 10H

MOV AH, 02H

MOV BH, 00H

MOV DH, 0EH

MOV DL, 28H

INT 10H

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MOV RES + 2

LFA DX, RES

CALL DISP

MOV AH, 4CH

INT 21H

DISP PROC NEAR

MOV AH, 09H

INT 21H

RET

DISP ENDP

END

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C:\MASM\ASCII.ASM

```
.model small
.data
msg1 db 0dh,0ah , "Enter the 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
```

F1=Help

Line:1 Col:1

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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
int 10h
mov ah,02h
mov bh,00h
mov dh,0ch
mov dl,28h
int 10h
```

```
mov res+2, '$'
```

F1=Help

Line:18

Col:1

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C:\MASM\ASCI.ASM

```
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
```

F1=Help

Line:31 Col:1


```
C:\MASM>EDIT ASCI.ASM
```

```
C:\MASM>MASM ASCI ;;
```

```
Microsoft (R) Macro Assembler Version 5.00
```

```
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
```

```
51708 + 464836 Bytes symbol space free
```

```
0 Warning Errors
```

```
0 Severe Errors
```

```
C:\MASM>LINK ASCI ;;
```

```
Microsoft (R) Overlay Linker Version 3.60
```

```
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
```

```
LINK : warning L4021: no stack segment
```

```
C:\MASM>ASCI
```

```
Enter the Alphanumeric Character
```