Anitej Prasad
IBM 19 CS 194

(LAB3) - TO PRINT ASCII VALUE OF INPUT

.MODEL SMALL

. DATA

MSG1   DB   0DH , 0AH, " ENTER ALPHANUMERIC CHARACTER : $"
RES DB   02H 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, OFH
CMP  BL, 0AH
JC    DIGIT1
ADD  BL, 07H
```

```
DIGIT:
ADD  AL, 30H
    MOV  RES, AL
AND  BL, OFH         ⟹ repeated.
CMP  BL, 0AH
JC    DIGIT 1
ADD  BL, 07H .
```

```
DIGIT1:
ADD BL, 30H
MOV RES+1, BL
MOV .

MOV AH, 00H
MOV AL, 03H
INT  10H


MOV AH, 02H
MOV BH, 00H
```

```asm
MOV DH, 0CH
MOV DL, 28H

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
```