# LAB-3
## Read an alphanumeric character & display ASCII

```
. model small
DISPLAY MACRO MSG
LEA   DX, MSG
MOV   AH, 09H
      INT 21H
ENDM


. DATA
MSG1  DB  0DH ,0AH , "ENTER AN ALPHANU
                     ERIC CHARACTER$"

RES   DB   0AH DUP(0)


. CODE
MOV  AX ,@ DATA
MOV  DS , AX
DISPLAY MSG1

MOV  AH , 01H      ; Displays Takes only one character
INT  21H          ; from user & stored in AL register


MOV  BL, AL
MOV  CL, 4
SHR  AL, CL
CMP  AL, 0AH
JC  DIGIT
ADD  AL, 07H


DIGIT:
       ADD  AL, 30H
       MOV  RES, AL
```

USHA

```
        AND  BZ, OFH
        CMP  BZ , OAH
        JC   DIGIT1
        ADD  BL, 07H


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


MOV  AH, 00H
MOV  AL, 03H          ; Get cursor poisition and size
INT  10H             ; Where BH page Number,
MOV  AH, 02H          ; DH-row   DL = coloum
MOV  BH, 00H          ; CH = cursor startline CL = curser
MOV  DH, OCH          ; bottomline
MOV  DL, 08H
INT  10H


MOV  RES+9, "($"
LEA  DX, RES
DISPLAY RES


MOV  AH, 4CH
INT  21H


END
```

31

C:\MASM>_