MP-MC LAB PROG-4

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Q. 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 ; To Read input from keyboard

INT 21H.

MOV BL, AL ; 0A in the input will be always in AL and BL reg

MOV CL, 4

SHR AL, CL   ; 00H

CMP AL, 0AH

JC DIGIT . AL<0H carry is generated so only

ADD AL, 07H   ADD 30H

DIGIT :

ADD AL, 30H

MOV RES, AL

AND   BL, 0FH   ; BL = 0AH

CMP   BL, 0AH

ADD   BL, 07H ; BL = 0A + 07H

```asm
DIGIT1 : ADD   BL,30H        ; BL = 0A + 07 + 30  (0A + 07) =
         MOV   RES+1, BL


         MOV   AH, 00H   ; Clear Screen
         MOV   AL, 03H
         INT   10H


         MOV   AH, 02H   ; Set cursor position
         MOV   BH, 00H
         MOV   DH, 0CH   ; Row Numb
         MOV   DL, 28H   ; Column Number


         MOV   RES+2 '$'
         LEA   DX, RES

         CALL  DISP   ; RES value will be printed on the screen

         MOV   AH, 4CH
         INT   21H


DISP  PROC  NEAR
         MOV   AH, 09H
         INT   21H
         RET
DISP  ENDP
         END
```