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COMPASS

Date: _____

⇒ 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 ; Reading input character from your keyboard
INT 21H

MOV BL, AL ; 0A is the input will be always IN
AL and BL registers.

MOV CL, 4

SHR AL, CL ; 00H

CMP AL, 0AH

JC DIGIT ; AL < 0AH CARRY is generated so
ADD AL, 07H now we add only ADD 30H

DIGIT :

ADD AL, 30H ; 30H

MOV RES, AL

AND BL, 0F1H ; BL = 0AH

CMP BL, 0AH

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

DIGIT1:

ADD BL, 30H ; $BL = 0A + 07 + 30$ $0A + 37 = 41H$
 MOV RES + 1, BL

MOV AH, 00H ; CLEAR THE SCREEN

MOV AL, 03H

INT 10H

MOV AH, 02H ; SET THE CURSOR POSITION

MOV BH, 00H

MOV DH, 0CH ; ROW NUMBER

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