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LAB-4

; TO PRINT ASCII VALUE OF INPUT

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. MODEL SMALL
. DATA
MSGI DB ODH, OAH, "ENTER ALPHANUMERIC
                    CHARACTER : $"
RES  DB 02H DUP(0)


. CODE
MOV AX, @ DATA
MOV DS, AX


LEA DX, MSGI
CALL  DISP


MOV AH, 01H ; READING INPUT CHARACTER FROM YOUR
                    KEYBOARD
INT  21H


MOV BL, AL ; OA IS THE INPUT WILL BE SORTED ALWAYS
                IN AL AND BL REGISTER
MOV CL, 4
SHR AL, CL ; OOH
CMP AL, OAH
JC DIGIT ; AL <OAH CARRY IS GENERATED SO NOW
                ONLY ADD 30H
ADD  AL, 07H


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

```
AND   BL, OFH  ; BL=0AH
CMP   BL, 0AH
JC    DIGIT 1
ADD   BL, 07H  ; BL=0A+07H


DIGIT 1:
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   ; COLUM NUMBER


MOV   RES+2, '$'  ; $HERE INDICATES END OF THE
                    RESULT STRING


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
```