Program - 3
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
                STORED ALWAYS IN AL AND BL
                REGISTER

MOV CL, 4
SHR AL, CL ; D0H
CMP AL, 0AH
JC DIGIT   ; AL < 0AH CARRY IS GENERATED
                SO NOW ONLY ADD 30H
```

Teacher's Signature : _____

```
ADD AL, 07H

DIGIT:
ADD AL, 30H    ; 30H
MOV RES, AL
AND BL, 0FH    ; BL = 0AH
CMP BL, 0AH
JC DIGIT1
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    ; 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.
```