Expt. No. _____

Program - 4
To print ASCII value of input

Page No. _____

```
.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 ; 00H
CMP AL, 0AH
JC DIGIT  ; AL < 0AH CARRY IS GENERATED
                  SO NOW ONLY ADD 30H
```

Teacher's Signature : _____

```asm
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.
```