

LAB-3

Date

No.

.MODEL SMALL

.DATA

MSG1 DB 0DH, 0AH, "ENTER ALPHANUMERIC CHARACTER : \$"

IREG DB 0B 02H DUP(0)

.CODE

MOV AX, @DATA

MOV DS, AX

LEA DX, MSG1

CALL DISP

MOV AH, 07H ; READING INPUT CHARACTER
~~INT 21H~~ FROM YOUR KEYBOARD

INT 21H

MOV BL, AL ; OA IS THE INPUT WILL BE
STORED ALWAYS IN AL
AND BL REGISTER

MOV CL, 4

SHR AL, CL ; 00H

MESID
RAZZ

CMP AL, 0A1H

JC DIGIT ; AL < 0A1H CARRY IS GENERATED

SO NOW ONLY ADD 301H

DIGIT:

ADD AL, 30H ; 301H

MOV REG, AL

AND BL, 0F1H ; BL = 0A1H

CMP BL, 0A1H

JL DIGIT1

ADD BL, 07H ; BL = 0A1H + 07H

DIGIT1:

ADD BL, 30H ; BL = 0A1H + 07H + 30H 0A1H + 37H = 41H

MOV REG+1, BL

MOV AH, 00H ; CLEAR THE SCREEN

MOV AH, 03H

INT 10H

MOV AH, 02H ; SET THE CURSOR POSITION

MOV BH, 00H

MOV DH, 0CH ; ROW NUMBER

MOV DL, 28H ; COLUMN NUMBER

MOV REG+2, '\$'

MESID
RAZZ

LEA DX, RES

CALL DISP ; RES VALUE WILL BE PRINTED ON
THE SCREEN

MOV AH, 4CH
INT 21H

