

LAB-2: Conversion of alphanumeric value into ASCII value and Print it into
the screen → 2nd Program

; To Print ASCII value of Input.

• MODEL SMALL

• DATA

MSG1 DB 0DH, 0AH, "Enter AlphaNumeric RES DB 02H DUP(0) CHARACTER: {"

• 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

ADD AL, 07H

DIGIT:

ADD AL, 30H ; 30H

MOV RES, AL

AND BL, 0FH

CMP BL, 0AH

JC DIGIT2

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

MOV DL, 28H

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
