

lab program 3.

To print the 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

INT 21H.

; Reading input character from your keyboard

MOV BL, AL

MOV CL, 4

; 0A is the input will be stored always in AL & BL registers

SHR AL, CL

; 00H

CMP AL, 0AH

JC DIGIT

; AL < 0AH carry is generated so now only add 30H

DIGIT :

ADD AL, 30H ; 30H

MOV RES, AL

AND BL, 0FH ; BL = 0AH

CMP BL, 0AH

JC DIGIT 1

AL BL, 07H

DIGIT 1:

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

MOV RES+1, BL

MOV AH, 00H

MOV AL, 03H

INT 10H

```
MOV AH,02H  
MOV BH,00H  
MOV DH,0CH  
MOV DL,28H
```

```
MOV RES+2,'$'
```

```
LEA DX,RES
```

```
CALL DISP
```

```
MOV AH,4CH
```

```
INT 21H
```

```
DISP PROC NEAR
```

```
MOV AH,09H
```

```
INT 21H
```

```
RET
```

```
DISP ENDP
```

```
END
```