

LAB 3

Read an alpha numeric character display

· model small

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 9H

ENDM

· DATA

MSG1 DB 0DH, 0AH, "ENTER AN ALPHA NUMERIC
CHARACTER"

RES DB 09H PUP(0)

· CODE

MOV AX, @DATA

MOV DS, AX

DISPLAY MSG1

MOV AH, 01H

INT 9H

MOV BL, AL

MOV CL, 4

SHR AH, CL

```
CMP AL, 0AH
JC DIGIT
ADD AC, 07H
```

DIGIT

```
ADD AL, 30H
```

```
MOV RES, AL
```

```
AND BL, 0FH
```

```
CMP BL, 0AH
```

```
JC DIGIT 1
```

```
ADD BL, 07H
```

DIGIT 1:

```
ADD BL, 30H
```

```
MOV RES+1, BL
```

```
MOV AH, 00H
```

```
MOV AL, 03H
```

```
INT 10H
```

```
MOV AH, 09H
```

```
MOV BH, 00H
```

```
MOV DH, 0CH
```

```
MOV DL, 98H
```

```
INT 90H
```

```
MOV RES+9, "$"
```

```
LEA DX, RES
```

```
DISPLAY RES
```

```
MOV AH, 4CH
```

```
INT 21H
```

```
END
```