

Lab Experiment: 8 ASCII

- MODEL SMALL
- DATA

```
MSG1 DB 0DH, 0AH, "ENTER ALPHANUMERIC CHARACTER$  
RES DB 02 DUP (0)
```

- CODE

```
MOV AX, @DATA
```

```
MOV DS, AX
```

```
LEA DX, MSG1
```

```
CALL .DISP
```

```
MOV AH, 01H
```

```
INT 21H
```

```
MOV BL, AL
```

```
MOV CL, 4
```

```
SHR AL, CL
```

```
CMP AL, 0AH
```

```
JC DIGIT
```

```
ADD AL, 07H
```

```
DIGIT: ADD AL, 30H
```

```
MOV RES, AL
```

```
AND BL, 0FH
```

```
CMP BL, 0AH
```

```
JC DIGIT1
```

```
ADD BL, 07H
```

```
DIGIT1: ADD BL, 30H
```

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

```
MOV AH, 00H
```

```
MOV AL, 03H
```

```
INT 10H
```

```
MOV AH, 02H
```

```
MOV BH, 00H
```

```
MOV DH, 0CH
```

```
MOV DL, 2BH
```

```
INT 10H
```

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