

3) To read an alphanumeric character & display its equivalent ASCII code at centre of screen

• model small

• data

msg1 db 0dh, 0ah, "enter alphanumeric character \$"

res db 02 dup(0) ; 02 → 2 bytes of storage

• code
dup → to duplicate bytes i.e. all bytes will have 0000 —

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

; Test mode.

```
mov ah, 02h ; set cursor position
mov bh, 00h ; page no.
mov dh, 0ch ; row (00 is top)
mov dl, 28h ; column value
int 10h
```

```
mov rcx+2, '$'
lea dx, res
call disp
mov ah, 4ch
int 21h
```

```
disp proc near
mov ah, 09h ; to terminate
int 21h
ret
disp endp
end.
```