

; PROGRAM :: PROGRAM TO READ AN ALPHANUMERIC CHARACTER
AND DISPLAY ITS EQUIVALENT ASCII CODE AT THE
CENTER OF THE SCREEN

. MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

END M

; MACRO TO DISPLAY A CHARACTER

DISPCHAR MACRO

MOV AH, 02H

INT 21H

END M

. DATA

MSG1 DB 0DH, 0AH, "Enter an alphanumeric character ::>"

MSG2 DB 0DH, 0AH, "Not an alphanumeric character ...>"

. CODE

Start: MOV AX, @data

MOV DS, AX

DISPCHAR MSG1

MOV AH, 01H

INT 21H

CALL CHECK

JC ERROR

...

```
mov ah, 0ah  
mov al, 03h  
int 10h
```

```
mov ah, 02h  
mov bh, 00h  
mov dh, 120  
mov dl, 400  
int 10h
```

```
hoh ax
```

```
aam
```

```
push ax
```

```
mov al, ah
```

```
xor ah, ah
```

```
aam
```

```
add ax, 7030h
```

```
mov al, ah
```

```
push ax
```

```
dispatch
```

```
hoh ax
```

```
mov dl, al
```

```
dispatch
```

```
hoh ax
```

```
add al, 30h
```

```
mov al, al
```

```
dispatch
```

```
mov ah, 01h
```

```
int 21h
```

```
jmp final
```

```
Exit: display msg 2  
jmp final
```


check proc near

cmh al, 30h

j e jret

j e tere

cmh al, 39h

j e jret

inc next

j c jret

next: cmh al, 41h

j e jret

j c ere

cmh al, 5ah

j e Flet

inc next1

j c jret

next1: cmh al, 61h

j e jret

j c tere

cmh al, 7ah

j e jret

inc ere

j c jret

ERR: STC

RET

FRIT: CLC

RET

check EndP

Fincl: mov Ah, 4ch

Int 21h

End start