

to set the co-ordinate

- model small
 - disk mvars msg
- ```
lea DX, msg
MOV AH, 09h
int 21h
```

endm

### .data

|      |    |           |                               |
|------|----|-----------|-------------------------------|
| row  | db | 02        | DUP(0)                        |
| col  | db | 02        | DUP(0)                        |
| msg1 | db | 0ah, 0ah, | "Enter x-co ordinate<br>: \$" |

msg2 db 0dh, 0ah, "Enter Y-co ordinate  
: \$"

msg3 db 0dh, 0ah, "Cursor displayed  
at the correct  
coordinates \$"

### .code

```
MOV AX, Cdata
MOV DS, AX
disp msg1
MOV SI, offset row
call read
disp msg2
MOV SI, offset col
call read
```

MOV SI, offset row  
 MOV ah, [SI]  
 INC SI  
 MOV AL, [SI]  
 SUB AX, 3030h  
 AAD  
 MOV DH, AL ; row  
 MOV SI, offset col  
 MOV Ah, [SI]  
 INC SI  
 MOV AL, [SI]  
 SUB AX, 3030h  
 AAD  
 MOV DL, AL ; col

MOV Ah, 00  
 MOV AL, 03h  
 INT 10h  
 MOV Ah, 02h  
 INT 10h  
 Disk msg3  
 Jmp final

Read Proc Near  
 MOV CX, 02h

Back: MOV Ah, 01h  
 int 21h  
 MOV CS:[SI], AL  
 INC SI  
 Dec CX

Inj back

Ret

Read end P

Final: MOV ah, 01h

INT 21h

MOV ah, 4ch

int 21h

End

## 10 BCD upcounter:

- model small
- code

MOV CL, 00

MOV ah, 00h

MOV al, 03h

int 10h

Back: MOV BH, 00h

MOV DH, 00h

MOV DL, 00h

MOV AH, 02h

INT 10h

MOV AL, CC

Add al, 00h

aam

add AX, 3030h

MOV CH, AL

MOV DL, AH

MOV AH, 02h

int 21h

Date: / /

MOV DL, ch  
MOV ah, 02h  
int 21h  
call delay  
JNC cl  
XOR AX, AX  
cmp CL, 100D  
JNE back  
JE last

Delay proc Near

Push ax  
Push bx  
Push cx  
MOV CX, 0FFFh  
A6: MOV BX, 0FFFh  
A91: NOP

dec BX  
JNZ a91  
Dec CX  
JNZ a91  
POP CX  
POP BX  
POP AX  
Ret

Delay endp

Last: MOV AH, 4CH  
int 21h  
end

Date / /

## creation and deletion of file

• model Small  
display macro msg  
lea dx, msg  
MOV ah, 09h  
int 21h

endm