

CURSOR PROGRAM

```

• MODEL SMALL
  .DATA
  ROW DB 02 DUP(0)
  COL DB 02 DUP(0)
  MSG1 DB 0DH, 0AH, "ENTER X-CO-ORDINATE: $"
  MSG2 DB 0DH, 0AH, "ENTER Y-CO-ORDINATE: $"
  MSG3 DB 0DH, 0AH, "cursor displayed at the correct coordinates $"
  .CODE
  MOV AX, @DATA
  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
  
```

IBM 19CS135

END

File Edit Search View Options Help

C:\MASM\CURSOR.ASM

```
.MODEL SMALL
DISP MACRO MSG
    LEA DX,MSG
    MOV AH,09H
    INT 21H
ENDM
.DATA
ROW DB 02 DUP(0)
COL DB 02 DUP(0)
MSG1 DB 0DH,0AH,"ENTER X-CO-ORDINATE: $"
MSG2 DB 0DH,0AH,"ENTER Y-CO-ORDINATE: $"
msg3 db 0dh,0ah,"cursor displayed at the correct coordinates$"
.CODE
    MOV AX,@DATA
    MOV DS,AX
    DISP MSG1
    MOV SI,OFFSET ROW
    CALL READ
    DISP MSG2
    MOV SI,OFFSET COL
    CALL READ
    MOV SI,OFFSET ROW
```

F1=Help

Line:1 Col:1

File Edit Search View Options Help

C:\MASM\CURSOR.ASM

```
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

JMP FINAL
```

F1=Help

Line:43 Col:1

File Edit Search View Options Help

C:\MASM\CURSOR.ASM

MOV AH,02H

INT 10H

JMP FINAL

READ PROC NEAR

MOV CX,02H

BACK:MOV AH,01H

INT 21H

MOV [SI],AL

INC SI

DEC CX

JNZ BACK

RET

READ ENDP

FINAL:MOV AH,01H

INT 21H

MOV AH,4CH

INT 21H

END

F1=Help

Line:61

Col:1