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Lab program -9

IBM19CS168

Sweetha. Patil

3rd sem 'D' section

Sweetha

- 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-coordinate" ; $ "
```

```
msg2 db 0dh, 0ah, "enter y-coordinate: $" ; $ "
```

- code

```
mov ax, @data
```

```
mov ds, ax
```

```
disp msg1
```

```
mov si, offset row ; (or) lea si, row
```

```
call read
```

```
disp msg2
```

```
mov si, offset col ; (or) lea si, col
```

```
call read
```

```
mov si, offset row
```

```
mov ah, [si]
```

```
inc si
```

```
mov al, [si]
```

```
sub ax, 3030h
```

```
aad
```

```
; convert unpacked bcd to packed bcd format
```

```
mov dh, al
```

mov si, offset col

mov ah, [si]

inc si

mov al, [si]

sub ax, 3030h

aad

mov dl, al ; dl will have y-coordinate

; clear the screen

mov ah, 00

mov al, 03h

int 10h

mov ah, 02h

int 10h

jmp final

; dh → x-coordinate &
dl → y-coordinate

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