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1BM19CS187
`3D` Batch-2
LAB-2

<u>Sumarray</u>

; Program to exchange the contents of 2 arrays
; ~~model small~~ element by element

.model small
.data
a db 10h, 20h, 30h, 40h, 50h
b db 11h, 22h, 33h, 44h, 55h

.code

mov ax, @data
mov ds, ax

lea si, a   ; si will have starting address
                              of a
lea di, b   ; di will have starting address
                              of b

mov cl, 05h
; loop definition

```asm
back : mov al, [si]    ; [si] retrieves the element
                         present the addres in SI

       xchg al, [di]    ; exchanges the elements
                          in al and [di]
       mov [si], al

inc si ; si = si + 1
inc di
loop back ; cx = cx - 1 ; if cx != 0, then
               jump back to target

; to verify the output

lea si, a
lea di, b

mov bl, [si]

mov bh, [di]

mov ah, 4ch
int 21h
end
```