

## Week 2:- Program (lab)-2

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: Program to exchange the contents of 2 arrays 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

back : mov al, [si] ; [si] retrieves the element present the address 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  $cx \neq 0$  ; 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