

Lab program-2

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 cx, 05h ; loop definition

back: mov al, [si] ; [si] retrieves the element present the address in si

xchg al, [di] ; exchange 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 ch, 4ch

int 21h

end