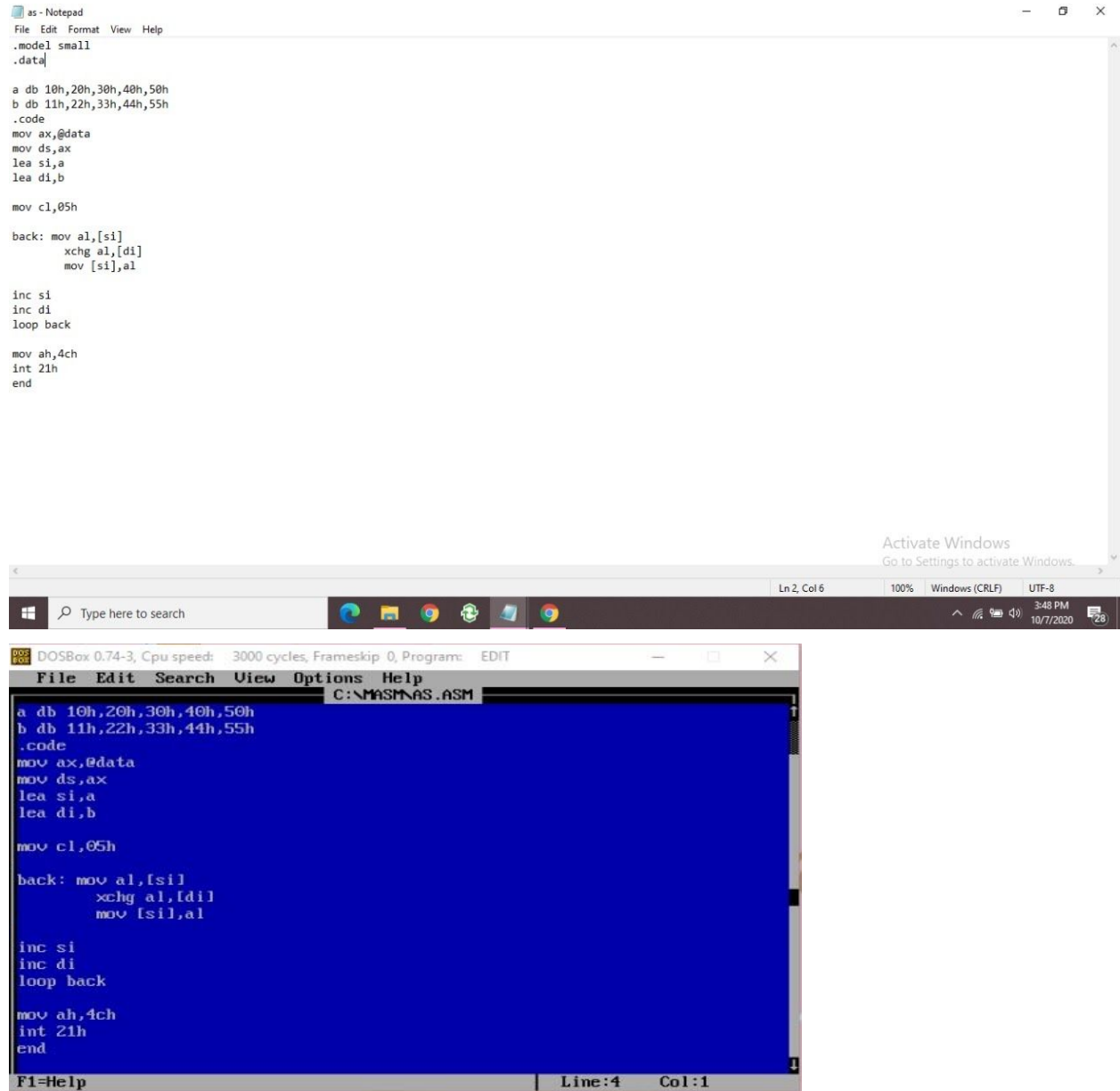


## Program: swapping two arrays



```
as - Notepad
File Edit Format View Help
.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
lea di,b

mov cl,05h

back: mov al,[si]
      xchg al,[di]
      mov [si],al

inc si
inc di
loop back

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

Activate Windows  
Go to Settings to activate Windows.

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: EDIT

```
File Edit Search View Options Help
C:\MASM\AS.ASM
a db 10h,20h,30h,40h,50h
b db 11h,22h,33h,44h,55h
.code
mov ax,@data
mov ds,ax
lea si,a
lea di,b

mov cl,05h

back: mov al,[si]
      xchg al,[di]
      mov [si],al

inc si
inc di
loop back

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

F1=Help | Line:4 Col:1

The output:

DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Program: CV

File Edit View Search Run Watch Options Calls Help

local			reg
source1	CS:IP (ACTIVE)		
052A:0000 B82B05	MOV AX,052B	AX = 4C55	
052A:0003 8ED8	DS,AX	BX = 0000	
052A:0005 8D360E00	LEA SI,Word Ptr [000E]	CX = 0000	
052A:0009 8D3E1300	LEA DI,Word Ptr [0013]	DX = 0000	
052A:000D B105	MOV CL,05	SP = 0000	
052A:000F 8A04	MOV AL,Byte Ptr [SI]	BP = 0000	
052A:0011 8605	XCHG AL,Byte Ptr [DI]	SI = 0013	
052A:0013 8B04	MOV Byte Ptr [SI],AL	DI = 0018	
052A:0015 46	INC SI	DS = 052B	
052A:0016 47	INC DI	ES = 051A	
052A:0017 E2F6	LOOP 000F	SS = 0529	
052A:0019 B44C	MOV AH,4C	CS = 052A	
052A:001B CD21	INT 21	IP = 001D	
052A:001D 0011	ADD Byte Ptr [BX+DI],DL	FL = 0206	
052A:001F 2233	AND DH,Byte Ptr [BP+DI]		
052A:0021 44	INC SP		

NU UP EI PL  
NZ NA PE NC

command

052B:0000 04 86 05 B8 04 46 47 E2-F6 B4 4C CD 21 00 11 22 .....  
052B:0010 33 44 55 10 20 30 40 50-02 8B 16 E4 01 E8 99 02 3DU.  
>

<F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display>