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**Assignment 12 - Ch4.10 Programming Exercise 8**

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;Shifting the elements in an array.

.386  
.model flat,stdcall  
.stack 4096  
ExitProcess PROTO, dwExitCode:DWORD  
  
 .data  
 array DWORD 10,20,30,40  
 arrayType DWORD TYPE array  
 myArray DWORD LENGTHOF array DUP(?)  
 finalArrayElement DWORD ?  
  
 .code  
 main PROC  
     
      
    MOV ESI, OFFSET array ;grab element addresses   
  
  
    MOV EDI, OFFSET myArray  
    ADD EDI, TYPE myArray  
  
      
    mov ECX, LENGTHOF array   
   
 L2:  
     MOV EAX, [ESI]  
     MOV [EDI], EAX  
  
    ADD ESI, TYPE array  
    ADD EDI, TYPE array  
  
     LOOP L2

    MOV EDI,OFFSET myArray  
     MOV EAX, [ESI]  
     MOV [EDI], EAX  
  
  
  
INVOKE ExitProcess,0 ; end  
main ENDP  
END main