1082 Assembly Language week 11HW

Student ID:	,	,	Name:	

Ch4 Data Transfers, Addressing, and Arithmetic

Objective: Familiar with the Data-Related Operators, Indirect Addressing, and LOOP.

1. Write down the hexadecimal value of each destination operand:

data

varB BYTE 65h,31h,02h,05h varW WORD 6543h,1202h varD DWORD 12345678h .code

mov ax,WORD PTR [varB+2]

; a.

mov bl,BYTE PTR varD

; b.

mov bl,BYTE PTR [varW+2]

; c.

mov ax,WORD PTR [varD+2]

; d.

mov eax,DWORD PTR varW

; e.

Ans.		
a.	AX=	
b.	BL=	
c.	BL=	
d.	AX=	
e.	EAX=	

2. Using LOOP, MOV, etc. instructions to put values in the ArrayB. ArrayB's values are set to 8*1, 8*2,..., 8*9.

INCLUDE Irvine32.inc	
.data	
ArrayB byte 9 DUB(?)	
.code	
main PROC	
mov ecx,	; loop counter
mov esi,	; address of ArrayB
L1:	
; Your turn	
loop L1	; repeat until ECX = 0
INVOKE ExitProcess, 0	
main ENDP	
END main	

*請完成此功能寫出對應的程式碼以及註解,並利用 Debug 模式,觀察程式執行的狀況,並另外截圖說明自己的程式碼執行過程放至 word 中。