Assignment 5

- Individual task.
- Due: Next section (one night before if you submit by email)

(10 points) Use the following variable definitions to answer the following:

.data

var1 SBYTE -4,-2,3,1

var2 WORD 1000h,2000h,3000h,4000h

var3 SWORD -16,-42

var4 DWORD 1,2,3,4,5

- a) For each of the following statements, state whether or not the instruction is valid:
 - 1. mov ax,var1
 - 2. mov ax,var2
 - 3. mov eax,var3
 - 4. mov var2,var3
 - 5. movzx ax,var2
 - 6. movzx var2,al
 - 7. mov ds,ax
 - 8. mov ds,1000h

b) What will be the hexadecimal value of the destination operand after each of the following instructions execute in sequence?

mov al,var1 ; al= mov ah,[var1+3] ; ah =

c) What will be the value of the destination operand after each of the following instructions execute in sequence?

mov ax,var2	; ax=
mov ax,[var2+4]	; ax=
mov ax,var3	; ax=
mov ax,[var3-2]	; ax=