I confirm that I have not received any unauthorized assistance in preparing for or writing this assignment. I acknowledge that a mark of 0 may be assigned for copied work. Deni Rakovic 110081508

1. A) Invalid – size mismatch
   B) Valid
   C) Invalid - size mismatch
   D) Invalid – Invalid memory to memory operation
   E) Invalid – Using movzx when type sizes are the same
   F) Invalid – Using movzx with var as destination
   G) Valid
   H) Invalid – Moving val into seg register not allowed

2. AL = FC , AH = 01

3. AX = 1000h and after final statement AX = 3000h

4. mov edx,var4 ; EDX = 00000001
   movzx edx,var2 ; EDX = 00001000
   mov edx,[var4+4] ; EDX = 00000002
   movsx edx,var1 ; EDX = FFFFFFFC

5. 1) INC val1
   2) SUB eax, val3
   3) mov ax, val2
      sub ax, val4
      mov val2, ax ;
   4) CF = 0, SF = 1 since MSB is 1
   5) CF = 0, SF = 1 since MSB is 1

6. A) CF = 1 SF = 0 ZF = 1 OF = 0
   B) CF = 0 SF = 1 ZF = 0 OF = 1
   C) CF = 0 SF = 1 ZF = 0 OF = 0

7. 1) 1
   2) mov dx, WORD PTR [myBytes]
   3) mov al, BYTE PTR [myWords + 1]
   4) mov eax, DWORD PTR [myBytes]

8. | | |
   |---|---|
   | mov esi,OFFSET myBytes | ESI = address of myBytes |
   | mov al,[esi] | AL = 10h |
   | mov al,[esi+3] | AL = 40h |
   | mov esi,OFFSET myWords + 2 | ESI = address of myWords + 2 |
   | mov ax,[esi] | AX = 3B8Ah |
   | mov edi,8 | EDI = 8 |

```
mov edx,[myDoubles + edi]        EDX = 3
```