Use the following data declarations. Assume that the offset of byteVal is 00000000:

**.data**

byteVal     sbyte    1,2,3,-7h

wordVal    word   1000h,2000h,3000h,4000h

dwordVal  dword 34567890h, 90785634h, 12346745h

Show the value of the ***final destination operand*** after each of the following code *fragments* has executed:*(If any instruction/s is invalid, indicate "INV" as the answer and briefly explain why)*

|  |  |
| --- | --- |
| 1. mov di,2   mov al, byteVal[di] | **answer   al=** |
| 1. mov bx, wordVal          mov esi, offset wordVal+4         xchg bx, [esi] | **answer   bx=                                     esi=** |
| 1. movsx cx, byteVal+3 | **answer**(show your answer in binary)  **cx=** |
| 1. mov ax, word ptr [dwordVal +5]   mov bl, byte   ptr [dwordVal +10] | **answer                 ax=                                      bl=** |
| 1. mov al, 80h       ;signed number          add al, 40h         ;signed number | **answer           OF =                 ZF=                       SF=** |

