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)*

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