



Q2). Write the values of the Carry, Sign, Zero and Overflow flags after executing the following instructions 6 marks

MOV AX,7FF0h

ADD AL,10h                      CF=              SF=              ZF=              OF=

ADD AH,1                        CF=              SF=              ZF=              OF=

ADD AX,2                        CF=              SF=              ZF=              OF=

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Q3). Write the instructions that perform the following operations 3 marks

1- Jump to label L1 if the unsigned integer in BX is greater than or equal the integer in CX

2- Clear bits 3 and 4 in AL register then if the result is Zero jump to L2, otherwise jump to L3

3- Clear the lower half of DX register and do not change the upper half.

Q4). Write a program that define a 2 arrays of 10 integers for each, initialize one of them by number of your choice. Your program should add 1 to the absolute value of the elements in the first array and store the results in the second array. 6 marks