Assignment-1

Q1.   Find the physical address of the memory location and the content of the register after   5
       executing the following operation:
       MOV AL, 0BCh
       MOV [3518], AL

Q2.   Find the legal and illegal instruction and comment why it is legal/illegal: 10
       i)   MOV DS, 1234H
       ii)   MOV AL, 0DA89H
       iii)   MOV SI, 3421H
       iv)   MOV CF, 1
       v)   ADD [2389H], 78H
       vi)   STI
       vii)   XOR CL
       viii)   INC CL
       ix)   IDIV BX, DX
       x)   LABEL X1

Q3.   If CS=24F6h and IP=634Ah. Determine: 5
       i)   Physical address
       ii)   Logical address
       iii)   Lower range of CS
       iv)   Upper range of CS

Q4.   Convert the following assembly language into machine code: 5
       i)   MOV SP, BX
       ii)   MOV CL, [BX]
       iii)   ADD AX, [BX+SI]