HOME WORK FOR EE390 SECTION 1 AND 2

1. For the following program, assume CS=DS=SS=ES and "LABEL=CS:0015" Execute the program and fill the appropriate **stack** segment locations the registers BX, CX, DX and SP register.

Title "PUSH POP AND SUBROUTINE" .MODEL small .STACK 32
.DATA .CODE
MOV AX, @DATA
MOV DS, AX
$MOV SP,0200_{ m H}$
$MOV AX,0080_{H}$
$MOV BX,7900_{H}$
PUSH AX
PUSH BX
CALL SUBROUT1
LABEL:POP CX
POP DX
MOV AH,4CH
INT 021H
SUBROUT1 PROC NEAR
INC AX
MOV CX,AX
RET
SUBROUT1 ENDP
END

Registers	Contents
BX	
CX	
DX	
SP	

Stack Address	Memory Content
SS:0200	
SS:01FE	
SS:01FC	
SS:01FA	
SS:01F8	
SS:01F6	
SS:01F4	
SS:01F2	
SS:01F0	

2. Execute the following program and find the REGISTER VALUES.

TITLE "XLAT" .MODEL SMALL .STACK 32 _H .DATA VAR DB "MISEIOHNTO_IPAOTTAS" VAR1 EQU 10 _H
.CODE
MOV AX,@DATA
MOV DS,AX
XOR AH,AH
MOV AL,VAR1
LEA BX,VAR
XLAT
CBW
MOV DX,AX
$MOV AX, 4C00_H$
INT 21 _H
END

1.	Write the value stored in DX register	·
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2.	Can "LEA" instruction (line 12) be replaced	
	with "OFFSET" instruction:	

3.	What type of operators are "EQU" &
	"DB":

4.	What is the pur	pose of the last two lines
	before 'END'	instruction?