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	14017	437 OD	A T A
		AX, @D	AIA
		DS, AX	
		SP,0200	
		AX,008	
	MOV	BX,790	0_{H}
	PUSH	AX	
	PUSH	BX	
	CALL	SUBRO	UT1
LABEL:	POP	CX	
	POP	DX	
	MOV	AH,4CH	ł
	INT		
SUB	ROUT1	PROC	NEAR
		INC	
			CX,AX
		RET	011,1111
CLIB	ROUT1		
END	10011	בויוטו	

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 :
2.	Can "LEA" instruction (line 12) be replaced with "OFFSET" instruction:
3.	What type of operators are "EQU" & "DB":

4. What is the purpose of the last two lines

before 'END' instruction?