

Short Quiz - 5

EE-390 1

Set B

Name: _____

ID No: _____

3(a). Execute the program in step and find the required values of the registers and stack segment. Assume the address value associated with “L1=5634H”

```
Title "Quiz 5"
.MODEL Small
.STACK 32
.DATA
    VAR8 DB 33H, 34H, 35H, 32H, 37H
    VAR9 DB 38H, 39H, 31H, 32H
.CODE
    MOV AX,@DATA
    MOV DS,AX
    MOV SP, 001FH
    MOV CX,5635H
    MOV AX, 0103H
    LEA BX, [VAR8]
    XLAT
    SUB AL,30H
    LEA BX,[VAR9]
    XLAT
    CALL Subroutine1
L1: POP BX
    POP DX
    MOV AX,4C00H
    INT 21H
    Subroutine1 PROC NEAR
        PUSH AX
        DEC CX
        JC L1
        PUSH CX
        RET
    Subroutine1 ENDP
END
```

Find the final value of
(before executing INT 21H):

BX = _____

DX = _____

	Stack Segment
SS:001F	
SS:001DH	
SS:001BH	
SS:0019H	