LAB-8
DECIMAL-UP COUNTER PROGRAM

```
.MODEL SMALL
.CODE
    MOV CL,00
    MOV AH,00H
    MOV AL,03H
    INT 10H

BACK : MOV BH,00H
       MOV DH,00H
       MOV DL,00H
       MOV AH,02H      ; Display only single
       INT 10H         ; character whose ASCII
    MOV AL,CL           ; DL register
    ADD AL,00H
    AAM
    ADD AX,3030H
    MOV CH,AL
    MOV DL,AH
    MOV AH,02H
    INT 21H
    MOV DL,CH
    MOV AH,02H
    INT 21H.
    CALL DELAY
    INC CL
    XOR AX,AX
    CMP CL,100D
    JNE BACK
    JE LAST
```

```
DELAY    PROC    NEAR
         PUSH  AX
         PUSH  BX
         PUSH  CX
         MOV  CX, 00FFH
AG:      MOV  BX, 0FFH
AG1:     NOP
         DEC  BX
         JNZ  AG1
         DEC  CX
         JNZ  AG
         POP  CX
         POP  BX
         POP  AX
         RET
         DELAY  ENOP
LAST:    MOV, AH, 4CH
         INT  21H
         END
```