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
        INT  10H


        MOV  AL, CL
        ADD  AL, 00H
        AAM
        ADD  AX, 00H 3030H
        AAM
        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
```

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