LAB - 5

Comparing 2 Strings

```
.Model small
.Data
STR1 PB 10H DUP(0)
STR2 DB 10H DUP(0)
LEN1 DB 00H
LEN2 DB 00H
MSG1 DB 00H,0AH,"ENTER First string: $"
MSG2 DB 00H,0AH,"ENTER SECOND STRING: $"
MSG 3 DB 0DH,0AH,"string are equal $"
MSG 4 DB 0PH,0AH,"string are not equal$"
MSG 5 DB 0DH,0AH "LENGTH of First string: $"
MSG 6 DB 0DH,0AH,"LENGTH of second string: $"
MSG 7 DB 0DH,0AH,"LENGTH of String $"
.CODE
MOV AX@DATA
MOV DS,AX
LEA DX,MSG1
MOV AH,09H
  INT 21H
MOV SI,00
Back1;
MOV AH,01H
INT 21H
CMP AL,0PH
JE NEXT1
MOV STR1[SI],AL
  INC LEN1
  JMP BACK1
NEXT1;
    LEA DX,MSG2
    MOV AH,09H
    INT 21H
    MOV SI,00
```

```
BACK2, MOV AH,01H
       INT 21H
       CMP AL,0DH
       JE NEXT2
       MOV STR2[SI],AL
       INC SI
       INC LEN2
       JMP BACK2
NEXT2;
       MOV AL,LEN1
       CMP AL,LEN2
         JNE NOTE EQUAL
         MOV SI,00
         MOV DI,00
         MOV CL,LEN1
BACK3;
       MOV AL,STR1[SI]
         CMP AL,STR2[SI]
           JNE NOTE EQUAL
          INC SI
          INC DI
          DEC CL
           JNE BACK3
        LEA DX,MSG3
        MOV AH,09H
         INT 21H
         LEA DX,MSG7
        MOV AH,09H
         INT 21H
         MOV DL,30H
          MOV AH,02H
           INT 21H
           JMP LAST
NOTE EQUAL:
```

```
LEA DX, MSG4
MOV AH, 09H
INT 21H
MOV DL, LEN1
ADD DL, 30H
MOV DL, LEN1
ADD DL, 30H
MOV AH, 02H
INT 21H
LEA BX, MSG6
MOV AH, 09H
INT 21H
MOV DL, LEN2
ADD DL, 30H
MOV AH, 09H
INT 21H
LAST : MOV AH, 4CH
INT 21H
END.
```