LAB5- To compare if 2 strings are equal

Amdej Prasad
18m19cs194

·MODEL SMALL

·DATA

```
    STR1  DB   10   DUP(0)
    STR2  DB   10   DUP(0)
    LEN1  DB   00
    LEN2  DB   00
    MSG1  DB  0DH, 0AH , " ENTER FIRST STRING : $"
    MSG2  DB  0DH, 0AH , " ENTER SECOND STRING : $"
    MSG3  DB  0DH, 0AH , " STRINGS  ARE  EQUAL $"
    MSG4  DB  0DH, 0AH , " STRINGS  ARE NOT  EQUAL $"
                                    FIRST
    MSG5  DB  0DH, 0AH , " LENGTH OF SECOND STRING IS $"
    MSG6  DB  0DH, 0AH , " LENGTH OF  SECOND STRING IS $"
    MSG7  DB  0DH, 0AH , " LENGTH  OF  STRING $"
```

·CODE

```
    MOV  AX, @DATA
    MOV  DS, AX


    LEA  DX, MSG1
    MOV  AH, 09H
    INT  21H
```

```asm
        MOV  SI, 00
BACK1 : MOV AH, 01H
        INT 21H
        CMP AL, 0DH
        JE NEXT1
        MOV STR1 [SI], AL
        INC SI
        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 MOV AL, LEN1
        CMP AL, LEN2
        JNE NOTEQUAL
```

```asm
        MOV  SI, 00
        MOV  DI, 00
        MOV  CL, LEN1
BACK3:  MOV  AL, STR1[SI]
        CMP  AL, STR2[DI]
        JNE  NOTEQUAL
        INC  SI
        INC  DI
        DEC  CL
        JNZ  BACK3

        LEA  DX, MSG3
        MOV  AH, 09H
        INT  21H

        LEA  DX, MSG7
        MOV  AH, 09H
        INT  21H

        MOV  DL, LEN1
        ADD  DL, 30H
        MOV  AH, 02H
        INT  21H
        JMP  LAST

NOTEQUAL:  LEA  DX, MSG4
```

```
MOV   AH, 09H
INT   21H


LEA   DX, MSG 5
MOV   AH, 09H
INT   21H


MOV   DI, LEN 1
ADD   DI,   30H
MOV   AH,   02H
INT   21H


LEA   DX, MSG 6
MOV   AH, 09H
INT   21H
MOV   DI, LEN 2
ADD   DL, 30H
MOV   AH,   02H
INT   21H

LAST:   MOV   AH, 4CH
        INT   21H
        END
```