Checking string equality

Lab program - 1

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```
.MODEL CMALL

.DATA.
STR1    DB    10    d   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 $"
MSG5    DB    0DH, 0AH, " length of first string is $"
MSG6    DB    0DH, 0AH, " length of second string is $"
MSG7    DB    0DH, 0AH, " length of string is $"


.CODE
    MOV  AX, @DATA
    MOV  DS, AX


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


    MOV  SI, 00


BACK 1:  MOV  AH, 01H
         INT  21H
         CMP AL, 0DH
         JE  NEXT1
         MOV  STR1[SI], AL
```

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```
        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  AL, LEN1
         CMP  AL, LEN2
         JNE  NOTEQUAL
         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
```

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


LEA   DX, MSG7
MOV  AL, 09H
INT  21H.


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


NOTEQUAL:  LEN  LEA   DX, MSG4
                MOV   AH, 09H
                INT   21H
              LEA   DX, MSG5
              MOV   AH, 09H
                INT  21H


         MOV   DL, LEN1
         ADD   DL, 30H.
         MOV   AH, 02H.
          INT   2H.


       LEA  DX, MSG6
       MOV  AH, 09H
       INT  21H
       MOV  DL, LEN2.
       ADD  DL, 30H
       MOV   AH, 02H
```

INT 21H

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

END
```