VINEETH. R. RAO
IBM19CS183

```
.MODEL SMALL
.DATA
STR1 dB 10 DUP(0)
STR2 DB 10 DUP(0)
LEN1 DB 00
LEN2 DB 00
MSG1 DB 0DH, 0AH, " Enter the first string :- $"
MSG2 DB 0DH, 0AH, " Enter the 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, 00H
BACK1: MOV AH, 01H
       INT 21H
       CMP AL, 0DH
       JE NEXT1
       MOV STR1[SI], AL
       INC SI
       INC LEN1
       JMP BACK1
```

VINEETH. R. RAO
IBM19CS183

```
NEXT1: LEA DX, MSG2
        MOV AH, 09H
        INT 21H
        MOV SI, 00
BACK2: MOV AH, 01H
        INT 21H
        MOV SI, 00
        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
        DEL CL
        JNZ BACK3
        LEA DX, MSG3
        MOV AH, 09H
        INT 21H
LEA   DX, MSG7
MOV   AH, 09H
INT 21H
```

VINEETH. R. RAO
1BM19CS183

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


NOTEQUAL: 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 21H
LEA DX, MSG6
MOV AH, 09H
INT 21H
MOV DL, LEN2
ADD DL, 30H
MOV AH, 02H
INT 21H


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