IBM19CS167
SWAROOP S. JADHAV

```
.MODEL SMALL

.DATA
STR1 DB 10 DUP(0)
STR2 DB 10 DUP(0)
LEN1 DB 00
LEN2 DB 00
MSG1 DB 00H,0AH ,"ENTER FIRST STRING $"
MSG2 DB 00H, 0AH ," ENTER SECOND STRING$"
MSG3 DB 00H 0AH ," STRINGS ARE EQUAL$"
MSG4 DB 00H, 0AH ," STRINGS ARE NOT EQUAL$"
MSG 5 DB 00H, 0AH, " LENGTH OF FIRST STRING IS $"
MSG 6 DB 00H, 0AH, " LENGTH OF SECOND STRING IS $"
MSG7 DB 00H ,0AH, " LENGTH OF STRING IS$"

.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,00H
        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 A2, LEN1
        CMP A2, 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
```

```
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, 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
```

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```
ADD DL, 30H
MOV AH, 02H
  INT 21H

LAST: MOV AH, 4CH
      INT 21H

END
```