Roshni Dash

1BM19CS133

classmate
Date
Page

COMPARE STRINGS

```
.MODEL SMALL
DISPLAY MACRO MSG
        LEA DX, MSG
        MOV AH, 09H
        INT 21H
ENDM

.DATA
MSG1 DB  0DH , 0AH, "ENTER FIRST STRING :$"
MSG2 DB  0DH , 0AH, "ENTER SECOND STRING :$"
MSG3 DB  0DH , 0AH, "LENGTH OF FIRST STRING :$"
MSG4 DB  0DH , 0AH, "LENGTH OF SECOND STRING :$"
MSG5 DB  0DH , 0AH, "---STRINGS ARE EQUAL---:$"

   STRING1 DB 80H DUP(?)
   STRING2 DB 80H DUP(?)

.CODE
START: MOV AX, @DATA
       MOV DS, AX
       DISPLAY MSG1
       MOV SI, OFFSET STRING1
       CALL READSTR
        MOV BL, CL
       DISPLAY MSG2
       MOV SI, OFFSET STRING2
       CALL READ STR
       PUSH BX
       PUSH CX
       DISPLAY MSG3
       MOV AL, BL
        CALL LED_DIS
```

```
DISPLAY MSG4
MOV AL,CL
CALL LEN-DIS
POP CX
POP BX
CMP CL,BL
JNE FAIL
MOV SI, OFFSET STRING1
MOV DI, OFFSET STRING2
CLD

CHK: MOV AL,[SI]
     CMP AL,[DI]
     JNE FAIL
     INC SI
     INC DI
     DEC CL
     JNZ CHK
     DISPLAY MSG5
     JMP FINAL

LEN-DIS PROC NEAR
        XOR AH, AH
        ADD AL, 00H
        AAM
        ADD AX, 3030H
        MOV BH, AL
        MOV DL, AH
        MOV AH, 02H
        INT 21H
        MOV DL, BH
        MOV AH, 02H
        INT 21H
```

```
RET
LEN_DIS ENDP

READSTR PROC NEAR
        XOR CL, CL

BACK: MOV AH, 01H
      INT 21H
      CMP AL, 0DH
      JE FINISH
      MOV [SI], AL
      INC SI
      INC CL
      JMP BACK

FINISH: MOV [SI], BYTE PTR '$'
        RET

READSTR ENDP
FAIL: DISPLAY MSG
FINAL: MOV AH, 4CH
       INT 21H

END START
```