

.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 EQUAL \$"

MSG6 DB 0DH, 0AH, "STRINGS NOT 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 READSTR

PUSH BX

PUSH CX

DISPLAY MSG3

MOV AL, BL

CALL LEN_DIS

POP CX

POP BX

Date ____/____/____

```
    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 MSGS
      JMP FINAL
```

```
LEN-DIS PROC NEAR
```

```
    XOR AH, AH
    ADD AL, 00H
    AAH
    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
```

CHP AL, 0DH

JE FINISH

MOV [SI], AL

INC SI

INC CL

JMP BACK

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

RET

READSTR ENDP

FAIL: DISPLAY MSG6

FINAL: MOV AH, 4CH

INT 21H

END START