Date: / /

MP-LAB

03/11/20

```
.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, "Strings are equal $"
MSG4  DB  0DH, 0AH, "Length of second
                              string : $"
MSG5  DB  0DH, 0AH, "Strings are not
                              equal $"
String 1  DB  80H DUP (?)
String 2  DB  80H DUP (?)

.CODE
START : MOV AX, @DATA
        MOV DS, AX
        DISPLAY MSG1
```

Date: / /

```
MOV SI, OFFSET STRING
CALL READSTR
MOV BL, CL
DISPLAY MSG 2
MOV SI, OFFSET STRING 2
CALL READ STR
PUSH BX
PUSH CX
DISPLAY MSG 3
MOV AL, BL
CALL LEN-DIS
POP CX
POP BX
CMP CL, BL
JNE FAIL
MOV SI, OFFSET STRING 1
MOV DI, OFFSET STRING 2
CLD
CHK: MOV AL, [SI]
     CMP AL, [DI]
     JNE FAIL
     INC SI
     INC DI
     DEC CL
     JNZ CHK
```

Date: / /

```
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

RET
LEN_DIS ENDP
READSTR PROC NEAR
        XOR CL, CL
        MOV AH, 01H
        INT 21H
        CMP AL, 0DH
        JE FINISH
        MOV [SI], AL
        INC SI
        INC CL
        INC BACK
```

Date: / /

```
FINISH: MOV [SI], BYTE PTR '$'
        RET
'READ STR ENDP
  FAIL : DISPLAY MSG 6
  FINAL : MOV AH, 4CH
          INT 21H
END START
```