

MP-lab 8

.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 1st string $"  
msg4 db 0dh, 0ah, "length of 2nd string $"  
msg5 db 0dh, 0ah, "---- strings are equal ---- $"  
msg6 db 0dh, 0ah, "---- strings are 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
cmp cl, bl
Jne fail
mov si, offset String1
mov di, offset String2
cld
chk: mov al, [si]
      cmp al, [di]
      jne disp_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
finish: mov [si], byte ptr '$'
        Ret
readstr Endp
fail: display msg6
final: mov ah, 4Ch
        int 21h
end Start
```