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Lab 7



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8) Read two strings, store them in a location & check if equal & also find length.

.model small

display macro msg

lea dx, msg

mov ah, 09h

int 21h

endm

.data

msg1 db 0dh, 0ah, "Enter 1st string & "

msg2 db 0dh, 0ah, "Enter 2nd string & "

msg3 db 0dh, 0ah, "Len of 1st string & "

msg4 db 0dh, 0ah, "Len of 2nd 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 dx, ax

display msg1

mov si, offset string1

call readstr

push dx

push ax



```
mov bl, al
display msg 2
mov si, offset string 2
call readstr
push bx
push cx
display msg 3
mov al, bl
call len-dis
display msg 4
mov al, cl
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]
      mov al, [di]
      jne fail
      inc si
      inc di
      dec cl
```



```
    jnz chk
    display msg5
    jmp final
len die proc mess
    mov 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 die endp
readstr proc mess
    mov cl, cl
back: mov ah, 01h
    int 21h
    cmp al, 0dh
    je finish
    mov [si], al
    inc si
```





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```
inc cl
jmp back
finish: mov si, bytes per '$'
ret
resdata endp
fail : display msg 6
final : mov ah, 4ch
int 21h
end start
```