

LAB 5 - String Compare

Date _____

Page _____

• model small

```
display macro msg  
    lea dx, msg  
    mov ah, 09h  
    int 21h
```

endmacro

• data

```
msg1 db 0dh, 0ah, "Enter first string: $"  
msg2 db 0dh, 0ah, "Enter second string: $"  
msg3 db 0dh, 0ah, "Enter length of first string: $"  
msg4 db 0dh, 0ah, "Length of second string: $"  
msg5 db 0dh, 0ah, "Are --- String equal ---?"  
msg6 db 0dh, 0ah, "--- String 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~~ call len-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~~ 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, b0h
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

```

```

fad: display msg6

```


final: mov ah, 4 ch
int 21h
end start