

Read 2 strings, store them in locations STR1 and STR2. Check if they are equal or not & display their lengths. Print appropriate msg on the screen.

• model small

DISPAY MACRO MSG1

lea DX, msg

mov AH, 09H

int 21H

endm

• DATA

~~mov AX, @data~~

~~mov DS, AX~~

msg1 db 0ah, 0ah, "enter 1st string \$"

msg2 db 0ah, 0ah, "enter 2nd string \$"

msg3 db 0ah, 0ah, "length of 1st string : \$"

msg4 db 0ah, 0ah, "length of 2nd string : \$"

msg5 db 0ah, 0ah, "Strings are equal \$"

msg6 db 0ah, 0ah, "Strings are not equal \$"

string1 db 80H dup(?)

~~readstr~~

• code

Start: mov ax, @data

mov ds, ax

display msg1

lea si, string1

call readstr

mov bl, cl

display msg2

lea si, string2

call readstr

push bx
push cx
display msg3

PAGE NO. icon
DATE: / /

mov al, bl
call len_dis
pop bx
pop cx
cmp cl, bl
jne fail
lea si, string1
lea di, string2
cld

chk: mov al, [si]
mov al, [di]
jne fail
inc si
inc di
dec cl
jnz chk
display msg5
jmp final

len_dis proc near

mov ah, 00H
add al, 00H
aam ax, 3030H
add ax, 3030H
mov bh, al
mov dl, ah
mov ah, 02H
int 21H
mov dl, bh
mov ah, 02H
int 21H

```
ret
len_disp endp
```

```
readstr proc near
    mov cl, 00H
```

```
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
```

```
fail: display msg6
```

```
final: mov ah, 4ch
```

```
int 21H
```

```
end start
```


DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

LINK : warning L4021: no stack segment

C:\MASM>compstring

ENTER FIRST STRING : bmsce

ENTER SECOND STRING : dtusi

LENGTH OF FIRST STRING: 05

LENGTH OF SECOND STRING: 05

---STRINGS ARE NOT EQUAL---

C:\MASM>bmsce

Illegal command: bmsce.

C:\MASM>compstring

ENTER FIRST STRING : bmsce

ENTER SECOND STRING : bmsce

LENGTH OF FIRST STRING: 05

LENGTH OF SECOND STRING: 05

---STRINGS ARE EQUAL---

C:\MASM>_

☒ EDIT

04-Oct-20 2:03 AM

MS-DOS Applicati...

69 KB

☒ EXE2BIN

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Application

2 KB

☐ HELLO.ASM

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ASM File

1 KB