

Program to compare two strings and see if they are equal or not.

• 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 "Length of second 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 ; store the length of first string

display msg2

mov SI, offset String2

call readstr
 push bx
 push cx
 display msg3
 mov al, bl
 call len-dis
 display msg4
 mov al, cl
 call len-dis
 pop cx
 pop bx

cmp cl, bl ; compare the lengths
 JNE fail ; If lengths are equal, process next statement

mov SI, offset string1
 mov DI, offset string2
 cld

CHK: mov al, [SI]
 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


```

P.  AAM
    add ax, 3030H
    mov bh, al
    mov dl, ah
    mov ah, 02H
    int 21h
    mov dl, bh
    mov ah, 02h
    int 21h

```

```

RET

```

```

Lendis 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

```

```

fail:    display msg6
final:   mov ah, 4ch
         int 21h

```

```

End Start

```

ENTER THE SECOND STRING :aaa

LENGTH OF THE FIRST STRING :13

LENGTH OF THE SECOND STRING :03

———STRINGS ARE NOT EQUAL———

C:\MSDOS>Ecdump

ENTER THE FIRST STRING :brishti

ENTER THE SECOND STRING :srushti

LENGTH OF THE FIRST STRING :07

LENGTH OF THE SECOND STRING :07

———STRINGS ARE NOT EQUAL———

C:\MSDOS>Ecdump

ENTER THE FIRST STRING :de

ENTER THE SECOND STRING :de

LENGTH OF THE FIRST STRING :02

LENGTH OF THE SECOND STRING :02

———STRINGS ARE EQUAL———

C:\MSDOS>

Display the system time

- model small
- code

```
mov ah, 2ch
int 21h
```

```
mov al, ch
aam
```

```
mov bx, ax
```

```
call disp
```

```
mov dl, 20h
```

```
mov ah, 02h
```

```
int 21h
```

```
mov al, cl
aam
```

```
mov bx, ax
```

```
call disp
```

```
mov dl, 20h
```

```
mov ah, 02h
```

```
int 21h
```

```
mov al, dh
```

```
aam
```

```
mov bx, ax
```

```
call disp
```

```
mov ah, 4ch
int 21h
```

```
disp proc near
```

```
mov dl, bh
```

```
add dl, 30h
```

How
H \Rightarrow CH
min \Rightarrow M = CL
S = DH
sec

ASCII value of ':' . You can also write
`mov dl, ':'`

```

mov ah, 02h
int 21h
mov dl, bl
add dl, 30h
mov ah, 02h
int 21h
ret
disp endp
end

```



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



0 Warning Errors
0 Severe Errors

C:\MSMD>Link timedisp.1

Microsoft (R) Overlay Linker Version 3.50

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LINK : warning L4021: no stack segment

C:\MSMD>timedisp

15:24:09

C:\MSMDedit timedisp.asm

C:\MSMD>timedisp

15:26:06

C:\MSMDedit timedisp.asm

C:\MSMD>timedisp

15:26:36

C:\MSMDedit timedisp.asm

C:\MSMD>timedisp

15:27:00

C:\MSMD>