

⇒ To compare if 2 strings are equal or not

.model small

.data

str1 db 10 dup(0)

str2 db 10 dup(0)

len1 db 00

len2 db 00

msg1 db 0ah, 0ah, "enter first string \$"

msg2 db 0dh, 0ah, "enter second string \$"

msg3 db 0dh, 0ah, "strings are equal \$"

msg4 db 0dh, 0ah, "strings are not equal \$"

msg5 db 0dh, 0ah, "length of first string is \$"

msg6 db 0d, 0ah, "length of second string is \$"

msg7 db 0dh, 0ah, "length of string is \$"

.code

mov ax, @data

mov ds, ax

lea dx, msg1

mov ah, 09h

int 21h

mov si, 00

back1: mov ah, 01h

int 21h

cmp al, 0dh

je next1

mov str1[si], al

inc si

inc len1

jmp back1



```
next 1: lea dx, msg2
        mov ah, 09h
        int 21h
        mov si, 00
```

```
back 2: mov ah, 01h
        int 21h
        cmp al, 0dh
        je next2
```

```
        mov str2[si], al
        inc si
        inc len2
        jmp back2
```

```
next 2: mov al, len1
        cmp al, len2
        jne notequal
```

; when length of both strings are equal that  
 i.e. len1 = len2

```
mov si, 00
mov di, 00
mov cl, len1 ; mov cl, len2
```

```
back 3: mov al, str1[si]
        cmp al, str2[di]
        jne notequal
        inc si
        inc di ; can use cld
        dec cl
        jnz back 3 ; can use loop statement
```

```
lea dx, msg3
mov ah, 09h
int 21h
```

```
lea dx, msg7
mov ah, 09h
int 21h
```

```
mov dl, len1 ; mov dl, len2
add dl, 30h
mov ah, 02h
int 21h
jmp last
```

```
not equal: lea dx, msg4
mov ah, 09h
int 21h
```

```
lea dx, msg5
mov ah, 09h
int 21h
```

```
mov dl, len1
add dl, 30h
mov ah, 02h
int 21h
```

```
lea dx, msg6
mov ah, 09h
int 21h
```

```
mov dl, len2
add dl, 30h
mov ah, 02h
int 21h
```



last : mor ah , 4ch  
 int 21h

end