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LAB4 → Prog 5 → To check whether 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 0dh,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 the first string is$"
    msg6 db 0dh,0ah," length of the second string is$"
    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

next1:  lea dx, msg2
        mov ah, 09h
        int 21h
        mov si, 00

back2:  mov ah, 01h
        int 21h
        cmp al, 0dh
        je next2
        mov str2[si], al
        inc si
        inc len2
        jmp back2

next2:  mov al, len1
        cmp al, len2
        jne notequal ;

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

back3:  mov al, str1[si]
        cmp al, str2[di]
        jne not equal
        inc si  inc di ; can use cld.
        dec cl
        jne back3 ; can use loop statement

        lea dx, msg3
```

```
mov ah, 09h
int 21h
lea dx, msg1
mov ah, 09h
int 21h
mov ah, 02h
int 21h
jmp last

notequal: 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: mov ah, 4ch
      int 21h
end
```