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WAP to enter 2 strings and check whether they are equal or not. If not print the length of both the strings.

- 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 first string: \$"

msg6 db 0dh, 0ah, "length of second string: \$"

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

- 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 next

mov str1[si] = al

inc si

inc len1

jmp back1

next1: lea dx, msg2
mov ah, 0Ah
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 ; when lengths of both string are equal
; if len1 = len2 it goes to next line

mov si, 00

mov di, 00

mov cl, len1 ; mov cl, len2 (as len1 = len2 for this
lines execution)

back3: mov al, str1[si]
cmp al, str2[di]
jne notequal
inc si

inc di ; can use cld
dec cl

jnz back3 ; Can use loop statement

lea dx, msg3
mov ah, 0Ah
int 21h.


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

```
mov dl, 0000 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 : mov ah, 4ch  
int 21h
```

end