

## Program 5

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.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 is \$"

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

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

.code

mov ax, @data

mov dx, 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, 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  
mov si, 00  
mov di, 00  
mov cl, len1

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

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



```
mov dl, len1  
add dl, 30h  
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
```

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end
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