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"3D" Batch - 2 LAB - 6

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.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 is \$"

msg6 db 0dh, 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 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
```

i when length of both strings are equal that
is $len1 = len2$

```
mov si, 00
```

```
mov di, 00
```

```
mov cl, len1 ; mov cl, len2
```

```
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, 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
```

```
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
```

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last : mov ah, 4ch
int 21h

end