Lab 5

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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,"Entered 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 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
        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 ci, len1
back3:  mov al, str1[si]
        cmp al, str2[di]
        jnc not equal
        inc si
        inc di
        dec cl
        jnz back3

        lea dx, msg3
```

```
mov ah ,09h
int 21

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

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

notequal: lea dx, msg4
mov dh, 09h
int 21h

lea dx, msg5
mov dh, 09h
int21 h

last: 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, 01H
INT 21H
```

```
LAST : MOV AH, 4CH
       INT 21H
       END
```