LAB PROGRAM-5

```
*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 $"
msg5 db 0dh,0ah," length of second string is $"
msg5 db 0dh,0ah,"length of string is $"

*code
mov ax,@data
mov ds,ax
lea dx,msg1
mov ah,0ah
int 21h
mov si,00
back1: mov ah,01h
int 21h
cmp al,0dh
je next1
mov str[si],al
inc si
inc len1
jmp back1
```

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

back2: mov ah, 0ah
       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 not equal

; 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 di, len1 ; mov di, len2
    add di, 30h
    mov ah, 02h
    int 21h
    jmp last

noteaval: lea dx, msg4
        mov ah, 09h
        int 21h

    lea dx, msg5
    mov ah, 09h
    int 21h

    mov di, len1
    add di, 30h
    mov ah, 02h
    int 21h

    lea dx, msg6
    mov ah, 09h
    int 21h
    mov di, len2
    add di, len2
    mov ah, 02h
    int 21h

last: mov ah, 4ch
    int 21h

    end
```