LAB PROGRAM - 5 11-11-20

```
. model small
. data
str1  db 10 dup (0)
str2  db 10 dup (0)
len1  db  00
len2  db  00
msg1  db odh,oah,"enter first string $"
msg2  db odh, oah," enter second string $"
msg3  db odh,oah," strings are equal $"
msg4  db odh,oah," strings are not equal $"
msg5  db odh,oah," length of first string is $"
msg6  db odh,oah," length of second string is $"
msg7  db odh,oah," 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
     int 21h
     cmp al, odh
     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

 ; 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

last : mov ah,4ch
          int 21 h
  end
```