LAB-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$"
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
       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

      ;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
       dec cl
       jnz back3
      lea dx,msg3
      mov ah,09h
      int 21h

      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 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

END
```