LAB 10:   (String)

- MODEL Small

Display macro msg
      Lea DX, MSG
      MOV AH, 09H
      INT 21H
ENDM

- DATA
msg1 db 0dh ,0ah ,"Enter first String : $"
msg2 db 0dh , 0ah, "Enter Second String: $"
msg 3 db 0dh , 0ah, "Ente Length of 1st String: $"
msg4 dh 0dh ,0ah, "Length of 2nd string :$"
msg 5 dh 0dh, 0ah, "---- Strings are Equal --:$"

String1 db 80H DUP(?)
      String 2 db 80H DUP (?)

- CODE
START : MOV AX, @DATA
      Mov DS, AX
      DISPLAY MSG1
      MOV SI, OFFSET STRING1
      Call Readstr
      mov bl, cl
      display msg2
      mov si, offset String 2
      call read str
      push bx
      push cx
      display msg3
      mov al, bl
      call len_dis
      display msg4

```asm
mov al, cl
call len_dis
pop cx
pop bx
cmp cl, bl
jne fail
mov SI, Offset String1
mov dI, Offset String2
cld

chk:    mov AL, [SI]
        cmp AL, [DI]
        JNE FAIL
        INC SI
        INC DI
        DEC CL
        JNZ CHK
        DISPLAY MSG5
        JMP Final

Len_dis proc near
        XOR AH, AH
        ADD AL, 00H
        AAM
        ADD AX, 3030H
        MOV BH, AL
        MOV DL, AH
        MOV AH, 02H
        INT 21H
        MOV DL, BH
        MOV AH, 02H
        INT 21H
```

```asm
        Ret
    Len_dis Endp

    Readstr proc near
            XOR  CL, CL

    Back : MOV AH, 01H
            INT 21H
            Cmp AL, 0DH
            JE  FINISH
            MOV [SI], AL
            INC SI
            INC CL
            Jmp Back

    Finish : MOV [SI], Byte ptr '$'
            Ret

    Readstr Endp
    fail : Display msg
    Final : mov ah, 4CH
            INT 21H

        END Start
```