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$"
    ~~msg3~~ msg3 db 0dh, 0ah, "strings are equal$"
    msg4 db 0dh, 0ah, "strings are not equal$"
    msg5 db 0dh, 0ah, "length of first string is$"
    msg6 db 0d, 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 ~~nn~~ next1
      mov str1[si], al
          inc si
          inc len1
          jmp back1
```

```
next1:  lea dx, msg2
        mov ah, 09h
         int 21h
        mov si, 00
back 2:  mov ah, 01h
         int 21h
         cmp al, 0dh
         je next2
         mov str2 [si], al
        inc si
       inc len2
         jmp back2

next 2:    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

back 3:  mov al, str1[si]
       cmp al, str2[di]
         jne   not equal
         inc   si
        inc di ; can use cld
         dec cl
        jnz  back3  ; can use loop statement

       lea dx, msg3
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```
    mov ah, 09h
    int 21h

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

   mov dl, len1  ; movdl, 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.
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```
last : MOV AH , 4CH
       INT 21h
       END
```