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3D-SECTION

MP-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 $"
   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, 00h
```

```
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, 00h
  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
    mov si, 00h
    mov di, 00h
    mov cl, len1
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 d1, len1
 add d1 30h
  mov ah,02h
   int 21h
    jmp last

notequal : lea dx, msg 4
           mov ah, 09h
            int 21 h

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

     mov d1, len1
      add d1, 30h
      mov ah, 02h
      int 21h
```