MP-LAB

Program-4

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3D - SECTION

```
• model small

display macro msg
 lea dx, msg
 mov ah, 09h
  int 21h
  endm

• data
 msg1 db 0dh, 0ah, "enter a string :- $"
 msg2 db 0dh, 0ah, "entered string is palindrome$"
 msg3 db 0dh, 0ah, "entered string is not a plindrome $"
  str db 10h dup(0)
  revstr db 10H dup(0)
   len dw 0

• Code
 mov ax, @data
  mov ds, ax

  display msg1

  mov si, 00h

  back1: mov ah, 01h
   int 21h

  cmp al, 0dh
    jz next
```

```
mov str[si], al
inc si
inc len
jmp back1
next: mov si, 00h
mov di, 00h
add di, len
dec di
mov cx, len
back2: mov al, str[si]
       mov revstr[di], al
       inc si
       dec di
loop back2
mov cx, len
mov si, 00h
mov di, 00h
cld
back3: mov bl, str[si]
       cmp bl, revstr[di]
       jnz notpali
       loop back3
       display msg2
       jmp last
notpali: display msg3
last: mov ah, 4ch
int 21h
end
```