

```
.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 palindrome"
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
next
```



```
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]
      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
```