

Palindrome

.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, 0ah

int 21h

cmp al, 0ah

jz next

mov str[si], al

inc si

inc len

jmp back1

next: mov si, 00h
mov di, 00h
add di, a len
dec di
mov cx, len

back2: mov al, str1[si]
mov revstr[di], al
inc si
mov revstr[di], al
inc di
dec di

loop back2

mov cx, len
mov si, 00h
mov di, 00h
dd

back3: mov bl, str1[si]
cmp bl, revstr[di]
jnz not_hali
loop back3
display msg2
jmp last

not_hali: display msg3
last: mov ah, hch
int 24h
end