data segment

msg1 db "Enter the string",10,13,'$'

msg2 db 10,13,"Yes it's a palindrome",10,13,'$'

msg3 db 10,13,"Sorry, not a Palindrome",10,13,'$'

msg4 db 10,13,"Reverse of string is",10,13,'$'

str db 10H dup('$')

revstr db 10H dup('$')

data ends

code segment

assume cs:code,ds:data,ss:stack

start:mov ax,data

mov ds,ax

mov es,ax

mov ah,09

lea dx,msg1

int 21h

mov ah,0Ah

lea dx,str

int 21h

lea si,str

inc si

mov cl,[si]

mov bl,cl

mov ch,0

inc si

lea di,revstr

add di,cx

dec di

back:cld

lodsb

std

stosb

loop back

mov ah,09

lea dx,msg4

int 21h

mov ah,09

lea dx,revstr

int 21h

lea si,str

inc si

inc si

lea di,revstr

mov cl,bl

mov ch,0

cld

repe

cmpsb

jnz no

mov ah,09

lea dx, msg2

int 21h

jmp skip

no:mov ah,09

lea dx,msg3

int 21h

skip:mov ah,4ch

int 21h

code ends

end start

end

