.model small

.data

msg db 'Enter string(end input with 0):',13,10,'$'

palin db 13,10,'It is a palindrome$'

notpalin db 13,10,'It is not a palindrome$'

inputstorage db 10 dup(?)

.code

start: mov ax,@data

mov ds,ax

lea si,inputstorage

lea dx,msg

mov ah,09

int 21h

l1: mov ah,08

int 21h

cmp al,30h

jz endin

mov dl,al

mov ah,02

int 21h

inc cl

mov [si],al

inc si

jmp l1

endin: lea di,inputstorage

mov ax,cx

mov cl,02h

div cl

mov cx,ax

dec si

check: mov al,[si]

cmp al,[di]

jnz notp

inc di

dec si

dec cl

jnz check

lea dx,palin

mov ah,09

int 21h

jmp done

notp: lea dx,notpalin

mov ah,09

int 21h

done: mov ah,4ch

int 21h

end start

