.model small

.data

cr equ 0dh

lf equ 0ah

co db ?

msg1 db 100 dup ('$')

msg2 db 100 dup ('$')

msg3 db "Enter a String $"

mssg db cr,lf,"Your String is $"

msg4 db cr,lf,"Reverse of Your String is $"

msg5 db cr,lf,"String is Palindrome $"

msg6 db cr,lf,"String is NOT Palindrome $"

print macro msg

mov ah,09h

mov dx,offset msg

int 21h

endm

.code

mov ax,@data

mov ds,ax

mov si,offset msg1

mov cx,0000h

print msg3

up:

mov ah,01h

int 21h

cmp al,0dh

jz nxt

mov [si],al

inc si

inc cl

jmp up

nxt:

mov co,cl

print mssg

print msg1

dec si

mov di,offset msg2

up1:

mov al,[si]

mov [di],al

dec si

inc di

dec cl

jnz up1

print msg4

print msg2

mov di,offset msg2

mov si,offset msg1

mov cl,co

up2:

mov al,[si]

cmp al,[di]

jnz stp

dec cl

jnz up2

print msg5

jmp stp2

stp:

print msg6

stp2:

mov ah,4ch

int 21h

end