

## LAB-5

.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)

sevs 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

comp al, 0dh

jz next

mov str[si], al

inc si

inc len

jmp back1

next: mov si, 00h  
mov di, 00h

add di, len

dec di

mov cx, len

back2: mov al, str[si]

mov rax, str[di]

inc si

dec di

loop back2

mov cx, len

mov si, 00h

mov di, 00h

cld

back3: mov bl, str[si]

cmp bl, rax[di]

jng notpal1

loop back3

display msg2

jmp last

notpal1: display msg3

last: mov ah, 0x4c

int 21h

end.