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URBAN
EDGE ___/___/___

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 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, 01h   ; malayalam --> input string where
int 21h                              length = 9
cmp al,0dh
jz next

mov str [si], al
inc si
inc len
jmp back1
```

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```
next : mov  si, 00h
mov    di, 00h
add    di, len        ; di = 00 + 09 = 9
dec    di             ; di = 8 (String of length 9 means
                                index from 0 to 8)
mov    cx, len        ; cx = 9

back2 : mov  al, str [si] ; al <-- str [00] = value 'm'
        mov  revstr [di], al; revstr [8] = value 'm'
        inc  si
        dec  di

loop  back2

mov  cx, len       ; cx = 9
mov  si , 00h
mov  di , 00h
cld

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

notpali : display msg3
last    : mov ah, 4ch
int 21h
end

next : mov  si, 00h
```