

• 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)
revstr db 10h dup(0)
len dw 0
```

• code

```
mov ax, @data
mov ds, ax
```

display msg 1

```
mov si, 00h
```

back1: mov ah, 01h ; malayalam →

input string where length = 9

```
int 21h
```



```
cmp al, 0dh  
jz next
```

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

```
next: mov si, 00h  
mov di, 00h  
add di, len ; di = 00 + 09 = 09  
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[si]  
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
```



```
back 3 : mov bl, str [si]
        cmp bl, revstr [di]
        Jnz not pali
        loop back 3
        display msg2
        Jmp last
```

```
not pali : display msg3
last : mov ah, 4ch
      int 21h
      end..
```