

Expt. No. _____

Lab- 5

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.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

back 1: mov ah, 01h ; malayalam - → input.

int 21h

string where length = 9

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

```
mov str[si], al  
inc si  
inc len  
jmp back 1
```

```
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
```

```
back 2 : mov al, str[si] ; al ← str[00] =  
value 'm'  
mov rev str[di], al ; rev str[8] = value  
'm'  
inc si  
dec di
```

```
loop back 2
```

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



```
back 3: mov bl, str[si]
        cmp bl, revstr[di]
        jnz notpali
        loop back 3
        display msg 2
        jmp last.
```

```
notpali : display msg 3
last     : mov ah, 4ch
          int 21h
          end.
```