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1BM19CS187

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'3D' Batch2 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

int 21h

string where length
= 19

```
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 = 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
```

Date: 11 / 11 / 20

```
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
```