

## LAB-4

String is a Palindrome?

• MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

• DATA

MSG1 DB 0DH, 0AH, "ENTER A STRING, -- \$1

MSG2 DB 0DH, 0AH, "ENTERED STRING PALINDROME"

MSG3 DB 0DH, 0AH, "ENTERED STRING NOT PALINDROME"

STR DB 10H DUP(0)

REVERSE DB 10H DUP(0)

LEN DW 0

• CODE

MOV AX, @DATA

MOV DS, AX

DISPLAY MSG1

MESID  
RAZZ

```
BACK1:  MOV AH, 01H  
        INT 21H  
        CMP AL, 07H  
        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 REXTR[DI], AL  
        INC SI  
        DEC DI  
        LOOP BACK2
```

```
MOV CX, LEN  
MOV SI, 00H  
MOV DI, 00H  
CLD
```





```
BACK 3: MOV BL, STR[52]  
        CMP BL, REVSTR[02]  
        JNZ NOTPAL1  
        LOOP BACK 3  
        DISPLAY MSG2  
        JMP LAST
```

```
NOTPAL1: DISPLAY MSG3
```

```
LAST:   MOV LH, LCH
```

```
INT 21H
```

```
END.
```

