

LAB - 4

```

.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, "ENTER STRING IS"
MSG3 DB 0DH, 0AH, "PALINDROME $"
MSG3 DB 0DH, "ENTERED STRING IS NOT A"
      DB "PALINDROME $"
STR DB 10H DUP(0)
LEN DW 0

```

• CODE

```

MOV AX, @DATA
MOV DS, AX

DISPLAY MSG1
MOV SI, 00H

```

BACK 1:

MOV AH, 01H

INT 21H

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

DEC DI

MOV CX, LEN

MOV SI, 00H

MOV DI, 00H

CLD

BACK 3:

MOV BL, STR[SI]

CMDBL, REVSTR[DI]

JNZ NOTPALI :

DISPLAY MSG 3

LAST :

MOV AH, 4CH

INT 21H

END