

## LAB#

• MODEL SMALL

DISPLAY MACRO MSG

5 LEA DX, MSG

MOV AH, 09H

INT 21H

END M

• DATA

10 MSG1 DB 001H, 0AH, "Enter a string :: \$"

MSG2 DB 001H, 0AH, "Input string is palindrome. \$"

MSG3 DB 001H, 0AH, "Input string is not  
a palindrome. \$"

STR DB 10H DUP(0)

15 REVSTR DB 10H DUP(0)

LEN DW 0

• CODE

MOV AX, @DATA

20 MOV DS, AX

DISPLAY MSG1

MOV SI, 001H

BACK1: MOV AH, 01H

25 INT 21H

CMP AL, 0DH

JE 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 REVSTR[DI], AL

INC SI

DEC DI

LOOP BACK2

MOV CX, LEN

MOV SI, 00H

MOV DI, 00H

~~JMP~~

BACK3: MOV BL, STR[SI]

CMPSB, REVSTR[DI]

JNZ NOTPAL1

LOOP BACK3

DISPLAY MSG2

JMP LAST

NOTPAL1: DISPLAY MSG3

LAST: MOV AH, 4CH

INT 21H

END.