

PALINDROME CHECKER

• MODEL SMALL

~~DATA~~

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

INT 21H

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

DEC DI

MOV CX, LEN

BACK2: MOV AL, STR[SI]

MOV REVSTR[DI], AL

INC SI

~~MOV RE~~ DEC DI

LOOP BACK2

MOV CX, LEN

MOV SI, 00H

MOV DI, 00H

CLD

BACK3: MOV BL, STR[SI]

CMP BL, REVSTR[DI]

JNZ NOTPALI

LOOP BACK3

DISPLAY MSG2

JMP LAST

NOT PALI: DISPLAY MSG3

LAST: MOV AH, 4CH

INT 21H

END