

4th Lab Program

.model small

display macho msg

MOV dx, msg

MOV Ah, 09h

INT 21h

ENDM

.data

MSG1 db 0Dh, 0Ah, "Enter the string \$"

MSG2 db 0Dh, 0Ah, "Reverse string: \$"

MSG3 db 0Dh, 0Ah, "String is a palindrome \$"

MSG4 db 0Dh, 0Ah, "String is not a palindrome \$"

STR DB 80h dup(?)

RSTR DB 80h dup(?)

.code

MOV Ax, @data

MOV DS, Ax

Display Msg1

~~MOV~~ LEA SI, STR

XOR CL, CL

Again: MOV AH, 01h

INT 21h

CMP AL, 0Dh

JE NEXT

MOV [SI], AL

INC SI

INC CL

JMP Again

Next: MOV [SI], Byte ptr '\$'

DEC SI

MOV CH, CL

LEA DI, RSTR

Back: MOV AL, [SI]

MOV [DI], AL

DEC SI

INC DI

DEC CH

JNZ BACK

MOV [DI], Byte ptr '\$'

Display MSG 2

Display RSTR

LEA SI, STR

LEA DI, RSTR

l2: mov al, [SI]

cmp al, [DI]

jne fail

inc si

inc di

loop l2

jmp success

fail: Display msg4

jmp final

success: Display 3

final: mov ah, 4Ch

int 21h

END