

## LAB-4

## Comparison of two strings

• MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

• DATA

MSG1 DB 0DH, 0AH

MSG2 DB 0DH, 0AH

MSG3 DB 0DH, 0AH

MSG4 DB 0DH, 0AH

MSG5 DB 0DH, 0AH

MSG6 DB 0DH, 0AH

STRING1 DB 80H DUP(2)

STRING2 DB 80H DUP(2)

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• CODE

START: MOV AX, @DATA

MOV DS, AX

DISPLAY MSG1

~~MOV~~ SI, OFFSET STRING1~~CALL~~ READSTRMOV ~~DI~~ BX, CL

DISPLAY MSG2

MOV SI, OFFSET STRING2

CALL READSTR

PUSH BX

PUSH CX

DISPLAY MSG3

MOV AL, BL

CALL LEN-DIS

DISPLAY MSG4

MOV AL, CL

CALL LEN-DIS

POP CX

POP BX

CMP ~~CL~~ CL, BL

JNE FAIL

MOV SI, OFFSET STRING1

MOV DI, OFFSET STRING2

CLO

(CHK: MOV ~~CL~~ AL, [SI])

CMP AL, [DI]

JNE FAIL

INC SI

INC DI

DEC ~~CL~~ CL

INZ ~~CHK~~ CHK

DISPLAY ~~MSG~~ MSG5

JMP FINAL

LEN-DIS

PROC NEAR

XOR AH, AH

ADD AL, 00H

AAM B

ADD AX, 3630H

MOV BH, AL

MOV DL, AH

MOV AH, 02H

INT 21H

MOV DL, BH

MOV AH, 02H

INT 21H

RET

LEN-DIS

ENDP

READSTR

PROC NEAR

XOR CL, CL

BACK:

MOV AH, 01H

INT 21H

CMP AL, 0DH

JE FINISH

MOV [SI], AL

INC SI

INC ~~BANK~~ CL

JMP BACK

FINISH:

MOV [SI], BYTE PTR

RET

READSTR

ENDP



FAIL: DISPLAY MSG6

FINAL: MOV AH,UCH

INT 21H

END START