

Lab-5

- model Small

- data

~~DATA DB~~

STR1 DB 10H DUP(0)

STR2 DB 10H DUP(0)

LEN1 DB 00H

LEN2 DB 00H

MSG1 DB 0DH, 0AH, "ENTER FIRST STRING: \$"

MSG2 DB 0DH, 0AH, "ENTER SECOND STRING: \$"

MSG3 DB 0DH, 0AH, "strings are equal \$"

MSG4 DB 0DH, 0AH, "strings are not equal \$"

MSG5 DB 0DH, 0AH, "length of first string is \$"

MSG6 DB 0DH, 0AH, "length of second string is \$"

MSG7 DB 0DH, 0AH, "length of string is \$"

- code

MOV AX, @DATA

MOV DS, AX

INT 21H

MOV SI, 00

BACK 1:

MOV AH, 01H

INT 21H

CMP AL, 0DH

JE NEXT1

JMP BACK1

NEXT1:

LEA DX, MSG2

INT 21H

MOV SI, 00

BACK 2:

MOV AH, 01H

INT 21H

CMP AL, 0DH

JE NEXT2

MOV STR2[SI], AL

INC SI

INC LEN2

JMP BACK2

NEXT2:

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MOV AL, LEN1
CMP AL, LEN2
JNE NOTEQUAL
MOV CL, LEN1

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BACK3:

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MOV AL, STR1[SI]
CMP AL, STR2[DI]
JNE NOTEQUAL
INC SI
DEC CL

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LEA DX, MSG3
INT 21H

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LEA DX, MSG7
INT 21H
MOV DL, LEN1
INT 21H
JMP LAST

```

NOTEQUAL:

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LEA DX, MSG4
MOV AH, 09H

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INT 21H

LEA DX, MSG5

MOV AH, 09H

MOV DL, LEN1

INT 21H

LEA DX, MSG6

INT 21H

MOV DL, LEN2

MOV AH, 02H

INT 21H

LAST:

MOV AH, 4CH

INT 21H

END

DOSBox 0.74-3, Cpu speed: 3000 cycles, Fram... — □ ×

C:\MASM>LINK LAB5;;

Microsoft (R) Overlay Linker Version 3.60

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LINK : warning L4021: no stack segment

C:\MASM>LAB5

ENTER FIRST STRING: HELLO

ENTER SECOND STRING: HELLO

STRINGS ARE EQUAL

LENGTH OF STRING IS 5

C:\MASM>LAB5

ENTER FIRST STRING: HI

ENTER SECOND STRING: HELLO

STRINGS ARE NOT EQUAL

LENGTH OF FRIST STRING IS 2

LENGTH OF SECOND STRING IS 5

C:\MASM>_