

LAB-4

, MODEL SMALL

.DATA

STR1 DB 10 DUP(0)

STR2 DB 10 DUP(0)

LEN1 DB 00

LEN2 DB 00

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

LEA DX, MSG1

MOV AH, 09H

INT 21H

MOV SI, 00

BACK1: MOV AH, 09H

INT 21H

CMP AL, 0DH

JE NEXT1

MOV STR1[SI], AL

INC SI

INC LEN1

JMP BACK1

NEXT1: LEA DX, MSG2

MOV AH, 09H

INT 21H

MOV SI, 00

BACK1: MOV AH, 01H

INT 21H

CMP AL, 0DH

JE NEXT2

MOV STR2[SI], AL

INC SI

INC LEN1

JMP BACK2

NEXT2: MOV AL, LEN1

CMP AL, LEN2

JNE NOTEQUAL

MOV SI, 00

MOV DI, 00

MOV CX, LEN1

BACK3: MOV AL, STR1[SI]

CMP AL, STR2[DI]

JNE NOTEQUAL

INC SI

INC DI

DEC CL

JNE BACK3

LEA DX, MSG3

MOV AH, 09H

INT 21H



LEA DX, MSG7

MOV AH, 09H

INT 21H

MOV DL, LEN1

ADD DL, 30H

MOV AH, 02H

INT 21H

JMP LAST

NOTE: LEA DX, MSG4

MOV AH, 09H

INT 21H

LEA DX, MSG5

MOV AH, 09H

INT 21H

MOV DL, LEN1

ADD DL, 30H

MOV AH, 02H

INT 21H

LEA DX, MSG6

MOV AH, 09H

INT 21H

MOV DL, LEN2

ADD DL, 30H

MOV AH, 01H

INT 21H

LAST: MOV AH, 4CH

INT 21H

END