

.MODEL SMALL

.STACK

.DATA

M1 DB 10,13,"ENTER STRING 1:\$"

M2 DB 10,13,"ENTER LENGTH OF STR 1:\$"

M3 DB 10,13,"DISPLAY 1ST STRING:\$"

M4 DB 10,13,"ENTER STRING 2:\$"

M5 DB 10,13,"ENTER LENGTH OF STR 2:\$"

M6 DB 10,13,"DISPLAY 2ND STRING:\$"

M7 DB 10,13,"CONCATINATION OPERATION:\$"

M8 DB 10,13,"COMPARE OPERATION:\$"

M9 DB 10,13,"NOT EQUAL:\$"

M10 DB 10,13,"EQUAL:\$"

STR1 DB 80,?,80 DUP(0)

STR2 DB 80,?,80 DUP(0)

LEN1 DB ?

LEN2 DB ?

.CODE

DISP MACRO XX

MOV AH,09

LEA DX,XX

INT 21H

ENDM

.STARTUP

DISP M1

MOV AH,0AH

LEA DX,STR1

INT 21H

```
DISP M2  
LEA SI,STR1+1  
MOV CL,[SI]  
MOV LEN1,CL  
ADD CL,30H  
MOV DL,CL  
MOV AH,02  
INT 21H
```

```
DISP M3  
MOV CL,LEN1  
LEA SI,STR1+2  
BACK:  
MOV DL,[SI]  
MOV AH,02  
INT 21H  
INC SI  
DEC CL  
JNZ BACK
```

```
DISP M4  
MOV AH,0AH  
LEA DX,STR2  
INT 21H
```

```
DISP M5  
LEA SI,STR2+1  
MOV CL,[SI]  
MOV LEN2,CL  
ADD CL,30H  
MOV DL,CL
```

MOV AH,02

INT 21H

DISP M6

MOV CL,LEN2

LEA SI,STR2+2

BACK1:

MOV DL,[SI]

MOV AH,02

INT 21H

INC SI

DEC CL

JNZ BACK1

DISP M8

LEA SI,STR1+2

LEA DI,STR2+2

MOV CL,LEN1

MOV CH,LEN2

CMP CL,CH

JNZ NE

BACK2:

MOV DL,[SI]

CMP DL,[DI]

JNZ NE

INC SI

INC DI

DEC CL

JNZ BACK2

DISP M10

JMP CONCATE

NE:DISP M9

CONCAT:

LEA SI,STR1+2

LEA DI,STR2+2

MOV CL,LEN1

MOV CH,LEN2

BACK3:

INC SI

DEC CL

JNZ BACK3

BACK4:

MOV DL,[DI]

MOV [SI],DL

INC SI

INC DI

DEC CH

JNZ BACK4

MOV CL,LEN1

MOV CH,LEN2

ADD CL,CH

LEA SI,STR1+2

BACK5:

MOV DL,[SI]

MOV AH,02

INT 21H

INC SI

DEC CL

JNZ BACK5

.EXIT

END