

7/11/2020

LAB PROGRAM - 5

Q. To check if two strings are equal.

A. • MODEL SMALL

• DATA

~~STR~~ 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, "STRING³ ARE EQUAL \$"

MSG4 DB 0DH, 0AH, "STRING³ 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, 01H

INT 21H

CMP AL, 0DH

JE NEXT1

11/11/2020

```
MOV STR1[SI], AL
INC SI
INC LEN1
JMP BACK1
```

```
NEXT1: LEA DX, MSG2
MOV AH, 09H
INT 21H
MOV SI, 0D
```

```
BACK2: MOV AH, 01H
INT 21H
CMP AL, 0DH
JE NEXT2
MOV STR2[SI], AL
INC SI
INC LEN2
JMP BACK2
```

```
LEA DX, MSG3
MOV AH, 09H
INT 21H
LEA DX, MSG7
```

```
NEXT2: MOV AL, LEN1
CMP AL, LEN2
JNE NOTEQUAL
MOV SI, 0D
MOV DI, 0D
MOV CL, LEN1
```

```
BACK3: MOV AL, STR1[SI]
CMP AL, STR2[DI]
JNE NOTEQUAL
INC SI
INC DI
DEC CL
```

11/11/2020

JNZ BACK3

LEA DX, MSG3

MOV AH, 01H

INT 21H

LEA DX, MSG7

MOV AH, 09H

INT 21H

MOV DL, LEN1

ADD DL, 30H

INT 21H

JMP LAST

NOT EQUAL: 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, 02H

INT 21H

LAST: MOV AH, 4CH

INT 21H

END