

LAB-5 COMPARING TWO STRING

:model small

.DATA

STR1 DB 10H DUP(0)

STR2 DB 10H DUP(0)

LEN1 DB 00H

LEN2 DB 00H

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

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

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

MSG4 DB 0DH, 0AH, "String 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 9H

MOV SI, 00

BACK1:

MOV AH, 01H

INT 9H

CMP AL, 0DH

JE NEXT1

MOV STR1[SI], AL

INC LEN1

JMP BACK1

NEXT 4:

```
LEA DX, MSG2  
MOV AH, 09H  
INT 21H  
MOV SI, 00
```

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

NEXT 2:

```
MOV AL, LEN2  
CMP AL, LEN2  
JNE NOTEQUAL  
MOV SI, 00  
MOV DI, 00  
MOV CL, LEN1
```

BACK 3:

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


Date _____ Page _____

```
LEA DX, MSG3
```

```
MOV AH, 09H
```

```
INT 9H
```

```
LEA DX, MSG7
```

```
MOV AH, 09H
```

```
INT 9H
```

```
MOV DL, 30H
```

```
MOV AH, 02H
```

```
INT 9H
```

```
JMP LAST
```

NOTE QUAL:

```
LEA DX, MSG4
```

```
MOV AH, 09H
```

```
INT 9H
```

```
MOV DL, LEN1
```

```
ADD DL, 30H
```

```
MOV AH, 02H
```

```
INT 9H
```

```
LEA BX, MSG6
```

```
MOV AH, 09H
```

```
INT 9H
```

```
MOV DL, LEN8
```

```
ADD DL, 30H
```

```
MOV AH, 02H
```

```
INT 9H
```

```
LAST: MOV AH, 4CH
```

```
INT 9H
```

```
END
```

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51574 + 464970 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\MASM>LINK STRINGLE.OBJ;;

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LINK : warning L4021: no stack segment

C:\MASM>STRINGLE

ENTER FIRST STRING: MASM

ENTER SECOND STRING: MASM

STRINGS ARE EQUAL
LENGTH OF STRING IS 4

C:\MASM>_