

File Edit Search View Options Help

C:\MASM\BISE.ASM

MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

.DATA

LIST DB 01H, 05H, 07H, 10H, 12H, 14H

NUMBER EQU (\$-LIST)

KEY DB 12H

MSG1 DB 0DH, 0AH, "ELEMENT FOUND IN THE LIST...\$"

MSG2 DB 0DH, 0AH, "SEARCH FAILED! ELEMENT NOT FOUND IN THE LIST \$"

.CODE

START : MOV AX, @DATA

MOV DS, AX

MOV CH, NUMBER-1 ; HIGH VALUE...

MOV CL, 00H ; LOW VALUE...

AGAIN : MOV SI, OFFSET LIST

XOR AX, AX

File Edit Search View Options Help

C:\MASM\BISE.ASM

MOV CH, NUMBER-1 : HIGH VALUE...
MOV CL, 00H : LOW VALUE...

AGAIN : MOV SI, OFFSET LIST

XOR AX, AX

CMP CL, CH

JE NEXT

JNC FAILED

NEXT : MOV AL, CL

ADD AL, CH

SHR AL, 01H

MOV BL, AL

XOR AH, AH

MOV BP, AX

MOV AL, DS:[BP][SI]

CMP AL, KEY

JE SUCCESS

JC INCLOW

MOV CH, BL

DEC CH

JMP AGAIN

INCLOW : MOV CL, BL

F1=Help

Line 18 Col 1

SEARCH VIEW OPTIONS HELP
C:\MASMBISE.ASM

```
SHR AL, 01H  
MOV BL, AL  
XOR AH, AH  
MOV BP, AX  
MOV AL, DS:[BP][SI]  
CMP AL, KEY  
JE SUCCESS  
JC INCLOW  
MOV CH, BL  
DEC CH  
JMP AGAIN
```

```
INCLOW : MOV CL, BL  
         INC CL  
         JMP AGAIN
```

```
SUCCESS: DISPLAY MSG1  
          JMP FINAL
```

```
FAILED : DISPLAY MSG2
```

```
FINAL : MOV AH, 4CH  
        INT 21H
```

```
END START
```

F1=Help

ELEMENT FOUND IN THE LIST...

C:\MASM>EDIT BISE.ASM

C:\MASM>MASM BISE;;

Microsoft (R) Macro Assembler Version 5.60

Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51478 + 465066 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\MASM>LINK BISE;;

Microsoft (R) Overlay Linker Version 3.60

Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

LINK : warning L4021: no stack segment

C:\MASM>BISE

ELEMENT FOUND IN THE LIST...

C:\MASM>