```
File Edit Search View Options Help
                                  C:\MASM\AZ.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($-list)
key db 012h
msg1 db Odh,Oah, "element found in the list...$"
msg2 db Odh,Oah, "search failed!! element not found in the list $"
.code
start : mov ax, @data
         mov ds, ax
         mov ch, number-1 thigh value...
         mov cl, 00h ;low value...
again1: mov si, offset list
         xor ax, ax
```

```
File Ddit Search View Options Help
                              C:\MASM\AZ.ASM
again1: mov si, offset list
        xor ax, ax
        mov ds, ax
        mov ch, number-1
                         :high value...
        mov cl, 00h
                         :low value...
        mov si, offset list
aga in:
        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 sucess
        jc inclow
        mov ch, bl
Commands for manipulating files
```

```
File Edit Search View Options Help
                                 C:\MASM\AZ.ASM |
        mov ch, bl
        dec ch
        jmp again
        xor ah, ah
        mov bp, ax
        mov al, ds:[bp][si]
        cmp al, key
        je sucess
        je inclow
        mov ch, bl
        dec ch
        jmp again1
inclow: mov cl,bl
        inc cl
        jmp again
sucess: display msg1
jmp final
failed: display msg2
final:
        mov ah,4ch
        int 21h
end start
Commands for manipulating files
```

