```
.MODEL SMALL
; MACRO TO DISPLAY THE MESSAGE

DISPLAY MACRO MSG
        LEA DX, MSG
        MOV AH, 09H
        INT 21H
ENDM
.DATA
LIST DB 01H, 05H, 07H, 10H, 12H, 14H
NUMBER EQU ($-LIST)
KEY DB 01H
MSG1 DB 0DH, 0AH, "ELEMENT FOUND IN THE LIST...$"
MSG2 DB 0DH, 0AH, "SEARCH FAILED! ELEMENT NOT FOUND $"

.CODE
START: MOV AX, @DATA
       MOV DS, AX
       MOV CH, NUMBER-1
       MOV CL, 00H
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
```

```asm
        JE  SUCESS
        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
```