MP - LAB

Program - 1

- MODEL SMALL

DISPLAY MACRO MSG
  LEA DX, MSG
    MOV AH, 09H
    INT 21H
ENDM

- DATA
LIST DB 01H, 05H, 07H, 10H, 12H, 14 H
NUMBER EQU ($-LIST)
KEY DB 10 H
  MSG1 DB 0DH, 0AH, "ELEMENT FOUND IN THE LIST...$"
  MSG2 DB 0DH, 0AH, "SEARCH FAILED !! ELEMENT NOT FOUND
                  IN THE LIST $"

- CODE
  START : MOV AX, @DATA
        MOV DS, AX
        MOV CH, NUMBER - 1
        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 BL, AL
       MOV BP, AX
       MOV AL, DS: [BP] [SI]
       CMP AL, KEY
       JE SUCCESS
       JC INCLON
       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
```