Lab1:---

Program

.MODEL SMALL

DISPLAY MACRO MSG

LEA DX,MSG

MOV AH,09H

INT 21H

ENDM

.DATA

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

NUMBER EQU ($-LIST)

KEY DB 021H

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

MSG2 DB 0DH,0AH,"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 AH,AH

MOV BP,AX

MOV AL,DS:[BP][SI]

CMP AL,KEY

JE SUCCESS

JC INCLOW

MOV CH,BL

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

SCREENSHOT:--



WRITTEN:--

