

.MODEL SMALL

; MACRO TO DISPLAY MSG

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 10H

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, 0DH

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 SUCCES

JC INCLOW.

{ IBM19CS183
VINEETH.R.

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