

PROGRAM 1

.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 10H

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

CMPSB

JE NEXT

JNC FAILED

NEXT: MOV AL, CL

ADD AL, CH

SHR AL, 01H

MOV BL, AL

XOR AH, AH

SWAROOP S. JADHAV

IBN1915167

MOV BP, AX

MOV AL, DS:[BP][SI]

CMP AL, KEY

JE SUCCESS

JC INCLW

MOV CH, BL

DE CH

JMP AGAIN

INCLW: MOV CL, BL

INC CL

JMP AGAIN

SUCCESS: DISPLAY MSG1

JMP FINAL

FAILED: DISPLAY MSG2

FINAL: MOV AH, 4CH

INT 21H

END START