MP LAB Peggrannue 1.

· MODEL SMALL

; MACRO TO DISPLAY THE MESSAGE

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 2HH

- DATA

45T DB 014, 054, 074, 104, 124, 144

NUMBER FOU (\$-450); number here is having the value 6.

KEY DB 104

MEGIODH, DAH, " ELEMENT FOUND IN THE LIST ... &

M392 ODH, OAH, " Search failed! Element not found so the list \$"

· CODE

Start: Mov ax, apala

Mou DS, are

Mou CH, Number -1; High value ... here value is 6-1-5 Mov Ct, OOH ; Low value

AGAIN: MON ST, Offset LIST. LEASI, LIST

XOR AX, AX ; MOU AX, OOH

CMP Ct, CH ; subtraction of C1-CH.

JE Nexte THE failed

NEXT: NOV ALICE . AL - COH

ADDA, CH ; AL -00+05-05

EMP Ahold ; Divide by 2 -> Alwill have the crosex of middle clem pro By AL i Bl- Indexof middle element

XOR AH, AH; clear AH.
NION BP, AX X
NOV AY DS: [BP][SI]
COMP AL, KBY ; compare key and AEQ]
JE Success ; if equal, Display success message.
JCINCLOW
MOVCH, EL ; If Key > A [F] 8 HIFF HIGH
DEC CH ; CH will have broder of middle & element (Search from low)
JMP ACIAIN to ma-1
INCLOW: MOVCLIBL: IF Key (AGE) Shift low
FNC CL ; CL will have codex of middle +1 element (Search from
JMP ACIAIN
BULCESS: DISPLAY MSGI
JMP FENAL
FAILED: DISPLAY MSG2
FINAL: MOUAH, 4CH ; JOB OVER- PERMINATE
INT 21H
END START