```
LE LIZE VICTOR COLLEGE
                   Las Program-1
                                         and the M
Binary search
. MODEL SMALL
 ; macro to display the message
                                  LATIN TO MILES : DELENS
 DISPLAY MACRO MSG
              LEA DX, MSG
                                 dipline yourseld toners
    Mov AH, D3H
              INT 21H
                                 FINAL AND AND HIM
EN DM
                                 1 25 AVE
· DATA
LIST DB 014, 054, 074, 104, 124, 14H
                                                  TRATE OW!
 NUMBER EQU ($-LIST)
   KEY DB 10H
 MSG 1 DB GOH, OAH, "EIGMENT FOUND IN THE LIST ... 5"
 MSG2 DB ODH, OAH, "SEARCH FAILED! I ELEMENT NOT FOUND IN THE
                         LIST $"
. CODE
 START: MOV AX, @ DATA
          MOU DS, AX
                             ; HIGHValve ....
          MOV CH, NUMBER-1
                             ; Low value . - . . .
          MOV CL, DOH
          MOV SI , OFFSET LIST
 AGAIN:
          XOR AX, AX
          CMP CL, CH
            JE NEXT
            JNC FAILED
         MOV AL, CL
 NEXT:
         ADD AL, CH
                             ; Divide by 2
         SHR AL, OTH
         MOU BL, AL
                             , clear AH
         XOR AH, AH
          MOUBP, AX
          MOV AL, DS:[BP][SI]
                                 ; compare key and A[I]
          CMP AL, KEY
                                 ; If equal, display successmessage
          JE SUCESS
          JC INCLOW
          MOV CH, BL
          DEC CH &
```

JMP AGAIN

INCLOW: MOV CL, BL INC CL

END START

JMP AGAIN

; IF Key < A[1] SHIFL LOW

; LL will have inder of middless.

SUCRESS : DISPLAY MSG1

JMP FINAL

appearing and popular of more

ERM DX. MAG

FAILED: DISPLAY MS42

FINAL : MOV AA, YCH

INT 21 H

J. HIGHWAYKER

... substitution ;

JOB over Terminate ---.

post established

1415 当如了

HUI, HOL, WOLL OSH, OFM, DH, 124, 14H

(1517-53 ABB BROWN

HOP EO YEA

MING DO DON, CAH, "EIEMENT FOUND IN THE LIST. . . T"
MYNZ DE ODN, CAH, "SERCH PRILED! I EIEMENT NOT ROWED IN THE

C157 4"

3002.

STRUT S MON 4x, @ DRID

TO MOV OF, AX

FIRE CTO CON

T21 1 T32430 , 12 NOW 114

MA CAR MOR

Ha (da ama

TABLE ST

THE PARTED