```
BINIARY SEARCH:
. model small
, MACRO TO DISPLAY THE MESSAGE ....
Display Macro Msg
         LEA DX, MSG
         MOV AH, 09H
         INT 21H
 ENDM
· DATA
LIST DB 01H, 05H, 07H, 10H, 12H, 14H
 NUMBER EQU ($-45T)
 KEY DB 012H
 MGGI DB ODH, DAH, "ELEMENT FOUND IN THE LIST ... 5"
 MSG 2 DB ODH, OAH, 'SEARCH FAILED! ELEMENT NOT FOUND
                           IN THE LIST $"
  · ODDE
   START: MOV AX, @DATA
           MOV DS, AX
           MOV CH, NUMBER-1; HIGH VALUE ...
                         ; LOW VALUE
           MOV CLIOOH
                   tero tero
 AGAIN: MOV ST, OFFSET LIST
          XOR AX, AX
          CMP CLICH CICA or clock or clack
          JE NEXT GEL
          JNC FALLED
```

NEXT: MOV AL, CL mid-low+ high
; DIVIDE BY 2 ADD AL, CH SHR ALIOH MOV BLIAL XOR AH, AM ; CLEAR AH MOV GBP, AX MOV AL, DS:[BP][SI] ralmid] CMP AL, KEY ; COMPARE KEY AND ALI] JE SUCCESS ; IF EQUAL, DISPLAY SUCCESS MESSAGE -JC [NCLOW MOV CHI, BL ; IF KEY > A [I] SHIFT HIGH DEC CH JMP AGAIN ; IF KEY < A [1] SHIFT LOW INCLOW: MOV CL, BL INC CL JMP AGAIN SUCCESS: DISPLAY MSG 1 JMP FINAL FAILED: DISPLAY MSG2 ; JOB OVER . TERMINATE FINAL: MOV AH, 4CH 1NT 21H END START

```
C:\MASMDmasm binspa::
 Microsoft (H) Macro Assembler Version 5.00
 Copyright (C) Microsoft Corp 1961-1985, 1987. All rights reserved.
  51468 + 465076 Nytem nyehol space free
      8 Warning Errors
      O Sewere Errors
C:\MSMblink binsca::
Microsoft (H) Overlay Linker Version 3.68
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
LINK : warning L4621: no stack segment
CINPASMO h i muma : :
Illegal command: binaca::.
COMPASTO & Limited
Clement found in the list
CHISAMASTO
```