MPLAB

VARRA CHARAN REDDY

Binary Search

MODEL SMALL

Macro Eddisplay arrays

OISPLAY MICRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

· DATA

KEY OB LOH

LIST OB OIH, 05H, 07H, 10H, 12H, 14/1

Number EQV (\$-List); number is having value 6

MSG IDB, ODH, OAH "Element found in this list --- \$"

MSG 2 OB ODH, OAH, "search failed Element not in the list-\$", CODE

START; MOV, AX, Q DATA
MOV DS , AX

mov CH, rumber-1; high value 6-1=5 mov CL, ooth; low value.

AMAIN: MOV SIJOFFSET; LICT; LEA SIJLIST

KOR AX, AX; MOV AX, OCH

CMP CL, CH; SUBtraction Of CL-CH

JE-NEXT

JNC FAILED.

NEXT: MOV AL, CL; AL =OOH ADD AL, CH; AL=00+05 =05

SHR, AL, OIH

MOV BL, AL

XOR AH, AH; Clean AH.

mov BP, AX

mov AL JOS: (BP)(SI)

CMP AL, KEY; compare KEY and ACI]

JE SUCCESS: If equal, Display success message

JC INCLOW

MOV CHSBL

DEC CH . CH will have index of middle -1 Clement

JMP AGAIN

ENCLOW; MOV CLIBL ; IF Key < ACIJ shift law + INC CL 3 Ch will have index middle the remember JMP AGAIN.

SUCCESS: DISPLAY MSG 1 JMP AGAIN FINAL

FAILED: DISPLAY MSONZ

FINAL: MOV AH, LCH

IN T 214

END START -