TASMIYA FATHIMA M T W T F S 18BM 19CS 172 COMPASS Date: 3 Binony Dearch MODEL SMALL . MACRO TO DISPLAY THE MESSAGE ... DISPLAY MACRO MSG MOV AH, D9H INT 21 H ENDM . DATA 1 IST DB OIH, OSH, O7H, 10H, 12H, 14H NUMBER EQU (F-LIST): number here is having the KEY DB 10H MSGI DB ODH, OAH "Element Found in the List ... F" MSG 2 DB ODH, OAH "Bearth Failed! I Element mut found in list F"

. CODE START: MOV AX, @ DATA MOV DS AX

> MOV CH, NUMBER-1; High value ... Here Value is 6-1=5 MOV CL, ODA ; Law value

AGAIN: MOV SI OFFSET LIST, LEA SI, LIST

XOR AX, AX: MOV AX, OOH

CMP CL, CH: Subtraction & CL-CH

JENEXT INC FAILE)

M T W T F S S Date NEXT: MOV ALCL , AL = OOH ADD AL, CH; The Divide by 2 > AL will have the index of ADD AL, CH; AL = 00 +05 = 05 middle element Mo V BL, AL; BL > wholes of middle element XOR AH, AH; Char AH MOV BP AX MOVAL PS: [BP][SI] CMP AL, KEY: Compare KEY AND ACT]

JE SUCCESS: ef equal, Display Success message MOV CH, BL. of Key > A[I] Shift High DEC CH. (H will have wichen of middle -1 element 1 Search from low to midde) JMP AGAIN INCLOW: MOV CL BL INC CL; CL well drove index of middle+1 element (search mid of 1 to IMP AGAIN SUCCESS: DISPLAY MSO 1 JMP FINAL FAILED: DISPLAY MSGO FINAL: MOV AH, 4CH TNT 21H END START