Yaehwarth Kiran. S LAB-1 1BM1909187 Date: 14/01/2020 3D-Botch 2 · MODEL SMALL MACRO TO DISPLAY THE MESSAGE DISPLAY MACRO MISGI DECLASSIFOACE LEA DX, MSG ADAMON VOM MOV AH, O9H INT 21H 101AV WO1: 1100 17 VOM ENDM 12 ADATA 1211 F 32310 TO VOID IMAGA LIST DB 01H, 05H, 07H, 10H, 12H, 14H NUMBER EQU (\$ - KIST) is number here is hving the De D KETAOLDAGIGOD ! H))) gras Value 6 KEY DB 10H (X)M MISGI DE ODH, OAH, ELEMENT FOUND IN THE LIST ... \$" MSG 2 DB ODH, OAH, "SFARCH FAILEDIL 10 40 400 JA. H) JAELEMENT NOT FOUND IN WIND IN STORY TOWN HITHE LUST S" Lights bir to what with

Date:14/10/2020 Called age HAMP HOOM, . CODE START: MOV AX, @DATA MOV DS, AX MOV CH, NUMBER-1; HIGH VALUE HERE VALUE 13 1116-1=5 MOV CL, OOH ; LOW VALUE AGAIN: MOV ST, OFFSET LIST ; LEAST, HALL HEL HOR, HYO HAD, HED AT FELLST XOR AX, AX; MOV AX, OOH CMP CL, CH; SUBTRACTION OF CL-CH JE NEXT HOLDING MINOS FAILED 1190 19 190M MEXT: MOV AL CD; AL = OOH ADD AL, CH; AL = 00 + 05 = 05 SHRAL, OIH; DIVIDE BY 2 -> Al will have the index of mid element

> MOV BL, AL; BL --> index of mid element KOR AH, AH ; CLEAR AH MOV BP, AX

MOV AL, DS: [BP][SI] CMP AL, KEY; COMPARE KEY AND A[I] JE SUCCESS; IF FRUAL, DISPLAY SUCCESS JC INCLOW MESSAGE MOV CH, BL; IF KEY > A[T] SHIFT HIGH DEC CH; CH will have index of middle - 1 element (Search from low to middle -1) JMP AGAIN

INCLOW: MOVIL, BL ; IF KEY KA[I] SHIFT LOW INCCL; CL will have index of middle +1 element (search from mid+1 to high JMP AGAIN

SUCCESS: DISPLAY MSGI JMP FINAL

FALLED: DISPLAY MSG2 ; JOB OVER . TERMINATE

FINAL: MOV AH, 4CH INT 21H

END START