papergrid USN: 1BM19CS139 Section: 30 Date: 12 /10 /28 Batch: 2 MODEL SMALL (comment) ; MACRO TO DISPLAY THE MESSAGE ... DISPLAY MACRO MSG LEA DX, MSG MOV AH, O9H INT 21H ENDM - Pignovaa ar : Ja il Acid : . DATA LIST DB OIH, OSH, O7H, 10H, 12H, 14H NUMBER EQU (\$ - LIST) KEY DB OIRH OILH MALA ANT. MSGI DE ODH, OAH, "ELEMENT FOUND IN THE LIST ... \$" MSG2 DB ODH, OAH, "SEARCH FAILED! ELEMENT NOT FOUND IN THE LIST \$" HE TWILL . CODE START: MOV AX, @ DATA MOV DS, AX MOV CH. NUMBER-1 : HIGH VALUE ... MOV CL, OOH ; LOW VALUE ... AGAIN: MOV SI OFFSET LIST XOR AX, AX CMP CL, CH TE NEXT JNC FAILED NEXT : MOV AL, CL ADD AL, CH SHR AL, OIH ; DIVIDE BY 2 MOV & BL. AL XOR AH, AH ; CLEAR AH MOV BP, AX MOV AL, DS:[BP][SI]

Name: Sakshi. P. Khandoba

## papergrid

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Date: / /

	Date.   I
	CMP AL, KEY ; COMPARE KEY AND A[I]
	JE SUCCESS; IF EQUAL, DISPLAY SUCCESS
	HOLDING MESSAGE
	JC INCLOW AND RELL
	MOV CH, BL ; IF KEY > A[I] SHIFT HIGH
	DEC CH HIS THE
	JMP AGAIN
	INCLOW: MOV CL, BL ; IF KEY < A[I] SHIFT LOW
	INC CL 6790
	IMP AGAIN AT THE ST THE
	SUCCESS: DISPLAY MSG1
	JMP FINAL
.SE.	FAILED: DISPALAY MSG2 ; JOB OVER. TERMINATE
- 11	PINAL MOVI AH, "4CHARE" HAD AGE AGE
	24/NT 21H
	END START
	TIMOD,
	MACO XA VOM : TRAIS
	Ye se voit
	MOV UH. NUMBER -1 ! HIGH VALUE
	MOV CL, DON : LOW VALUE.
	BGRILL: MOV ST, CRESET LIST
	X6 _ X6 _ 36 X
	CMP CL,CH
	THE MENT
	TNC FBU D
	DEXT : MOV BLOL
	H) IF 90A
	S VE TRIUME : DIJ JA Abe
	s va issung : blu liA abe
	S VS TELLOG : DIJ LIA SHE IA LISTS LOM