; \*\*\*\*\*\*\*\* compare current and preset zones status (This CHECKZONE:

#### (This part is where an alarm is trigger start)

movf ENTRYDELAY2,W; has entry2 delay timed out?

btfss STATUS,Z (This part is where checking for 2<sup>nd</sup> keypad)

call CONTINUEENTRY2 ; no, continue countdown

movf ZONESVAL,W; get current zones val(This part is where zones normal mode from eeprom)xorwf ZONENORMAL,W ; XOR with normal zones status (This part is where zone compare is made)btfss STATUS,Z; has a zone status been changed? (This part is where checking for zone trigger)goto ZCH2; yes(If zone is trigger, then jump to ZHC2)movf ALARMZONE,W; have any zones been triggered?btfsc STATUS,Z;If no zone trigger, then return scan again)return; no

# ZCH2:

movwf ZONESVAL ; yes (This part show zone check with input compare with eeprom) andwf INCLZONE,W ; is it a required zone? (This part is where checking is zone put on active?) btfsc STATUS,Z (If you set Z1,3,4,5,8 active, then z2 alarm, program will return and scan again) return ; no movwf ZONESVAL (This part is zone is active, so continue) btfsc ALARMSTATUS,5; yes, is alarm in passive status (just sets buzzer)? ; yes (This part is when you are in monitoring mode, if not, continue return iorwf ALARMZONE,W ; no, OR answer with previous zones triggered value movwf ALARMZONE btfsc ALARMSTATUS,STROBE ; has alarm already been triggered? (This part confirm alarm) goto ZONEB ; yes movf ALARMZONE,W andwf EXITZONE,W ; has entry zone been triggered? (This part check entry zone) btfsc STATUS,Z goto ZONEB ; no movf ENTRYDELAY,W ; yes, has entry delay timed out?

btfsc STATUS,Z

goto ZONEB ; yes

bsf ALARMSTATUS, BUZZER ; no so continue countdown

call CONTINUEENTRY;

call LCD21 ;set address for line 1 cell 1

bsf RSLINE,4 ;set RS for data send

movlw 'E'

call LCDOUT

movlw 'N'

call LCDOUT

movlw 'T'

call LCDOUT

movlw 'R'

call LCDOUT

movlw 'Y'

call LCDOUT

return

# ZONEB:

movf ALARMZONE,W

xorwf PREVALARMZONE,W ; is it same as previous alarm zone setting?

btfsc STATUS,Z

return ; yes

movf ALARMZONE,W

movwf PREVALARMZONE

movwf STORE1 ; store INTRUDED status

movlw 7

call SETPRM

	<b>K20</b>	NE2.
	n ZU	INLZ.

; called also from power up entry

call LCD1 ;set address for line 1 cell 1

bsf RSLINE,4 ;set RS for data send

### movf ALARMZONE,W

movwf STORE1 ; store INTRUDED status

call SHOWZONE

clrf LOOP ;clear loop

bsf RSLINE,4 ;set RS for data send

btfss ALARMSTATUS, PANIC

goto LCDMS3 ; ..... TRIG

movlw 'P'

call LCDOUT

#### LCDMS3:

TRIG:

movf LOOP,W ;get table address
call MESSAG2 ;get ENTERED message letter
call LCDOUT ;show it
incf LOOP,F ;inc loop
btfss LOOP,3 ;has last LCD letter been sent?
goto LCDMS3 ;no
btfss ALARMSTATUS,STROBE ; has alarm already been triggered?

(This is where you got stuck. Meaning 1<sup>st</sup> alarm with bell, 2<sup>nd</sup> alarm no bell)

bsf ALARMSTATUS,BELL ; no, so trigger bell

bsf ALARMSTATUS, BUZZER

bsf ALARMSTATUS,STROBE

movf ALARMSTATUS,W ; store ALARMSTATUS (but with bell off) to eeprom

movwf STORE1

bcf STORE1,BELL

movlw 8

call SETPRM

return