Data\_Dump: 'Dump all 255 Memory locations

for b11 = 1 to 255

read b11, b12

sertxd (#b11,44,#b12,13,10)

'Read the EEPRM brain cell
'Print it on the F8 or F9 Screen
toggle 2

'Make a tick sound
next b11

'Play it again Sam

low 2 'Finish up leaving pin 2 in a low state

Read\_Voltage: 'Battery Check when starting up each time calibadc10 w1 'Read a 1.024 volts internal refference voltage.

w1 = 10230 / w1 'Rough calc b3 to 10'ths of a volt

goto Output\_Data 'Go and Blink out the battery voltage as Volts and 1/10th of

Volt

Data\_Logger: 'Main Data Blinking and Storage Starts Here

for b11 = 0 to 255 'For each memory location

for b10 = 0 to 10 'Read the same value 10 - 25 times. Repeating increases

duration

'AND allows the present value to be observed at a

reasonable rate

'10x is good for 'over night (VERY approx).

'25x = 24 hours

'100x could be for a school week etc

Time Delay:

nap 8 'Save lots of power by sleeping between measuring 7=Fast

8=Medium 9=Slow

Input\_Readings: 'Reading Data starts here

Read\_ADC\_Pin\_1: 'Take a reading

high 4 'Enegise the sensor ONLY when needed to save power

readadc 1, w1 'Measure voltage ratio on pin 1 into Variable brain cell w1

input 4 'DE-Energise sernsor to save power

Output\_Data: 'Sending out the data starts at this point

Debugger: 'Debug is INVLUABLE if chosen to demonstrate binary /

CS aspects

'debug 'LOOK at the gears and wheels, bits and bytes on the F6 Debug

Screen

'IF enabled and IF programming lead is plugged in. Disable

otherwise

Math: Pic-Math b21 = w1 / 100brain cell b22 = w1 / 10 // 10 b23 = w1 // 10 Sound\_Beep\_Pitch: b0 = w1 // 64 + 6464 Hundreds: do until b21 = 0sound 2,(b0,50) dec b21 nap 4 loop nap 6 Tens: do until b22 = 0sound 2,(b0,25) dec b22 nap 4 loop nap 6 Ones: do until b23 = 0sound 2,(b0,5) dec b23 nap 4 loop nap 6 next b10 Store\_Data: write b11,w1

sertxd (#b11,9,#b12,9,#w1,13,10)

next b11

'H+D+U Number crunching time (good example of 'Hundi Calculate Hundreds, place result into b21 RAM 'Tens: Shift right, MOD Divide result by 10 to get remainder of /10 'Ones: MOD Divide by 10 to get remainder of /10 I.e. Ones 'Set up an audible (shifting pitch) proportional to the data 'b0 is mod divided to get a 0 <> 64 range annut then shifted UP by