

PICAXE BASICS



IF THEN STATEMENT ReadADC

Make a selection based on a sensor measurement

Syntax:

If...Then Statement

IF variable, comparator (= < >), value, THEN, do something , Endif

ReadADC pin_number, variable

```
Code    Main:
        Readadc 1,b1
        debug b1
        If b1 < 50 then
            high 2
            pause 500
            low 2
        endif
        goto main
```

Explained

ReadADC 1,b1 takes the voltage at **pin1** (e.g. a sensor) and gives it a value between 0 and 255, variable **b1**.

debug b1 opens debug screen and shows the value of the **variable b1**.

if b1 < 50 then turn on LED pin 2

If b1 is less than the threshold '50', the program goes to the end of the 'if then statement' **endif**.

Tinker

- 1 Read value in variable b1 on the **debug screen (F6)**. Change the **threshold** value in the **if then statement** to the middle of the variable b1 range 0 to 255. Test it.
- 2 What would be a good threshold for a Night Light?

Circuit



