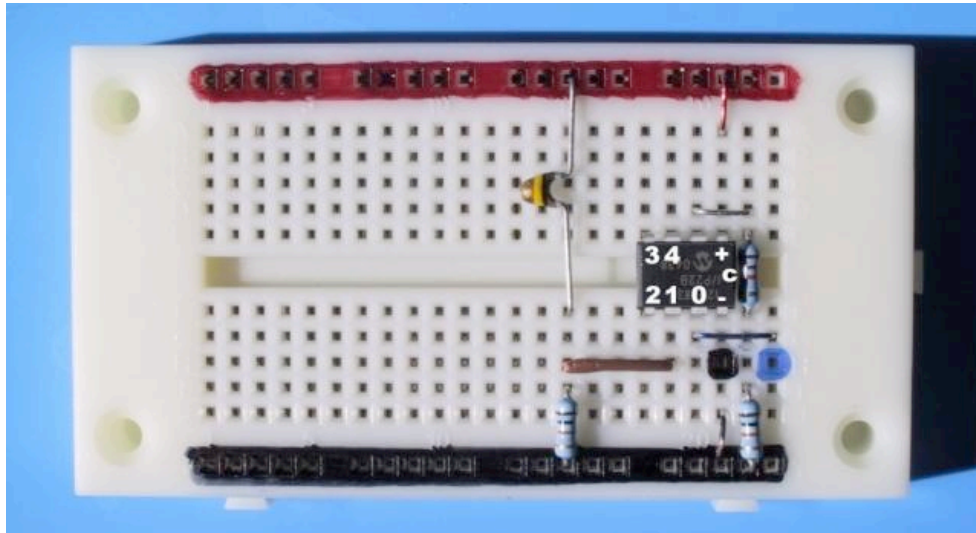


If Then Else ~ Temperature Trigger



Loopa:

nap 5

readadc 1, b1

sertxd (#b1, 13, 10)

if b1 < 100 then

switch On 2

else

switch Off 2

endif

goto Loopa

'Nap for a bit. Low power time delay

'Read the Thermistor readadc voltage on pin 1 into variable b1

'Sertxd 'txt message' the F8 screen at 4800 baud for fine tuning

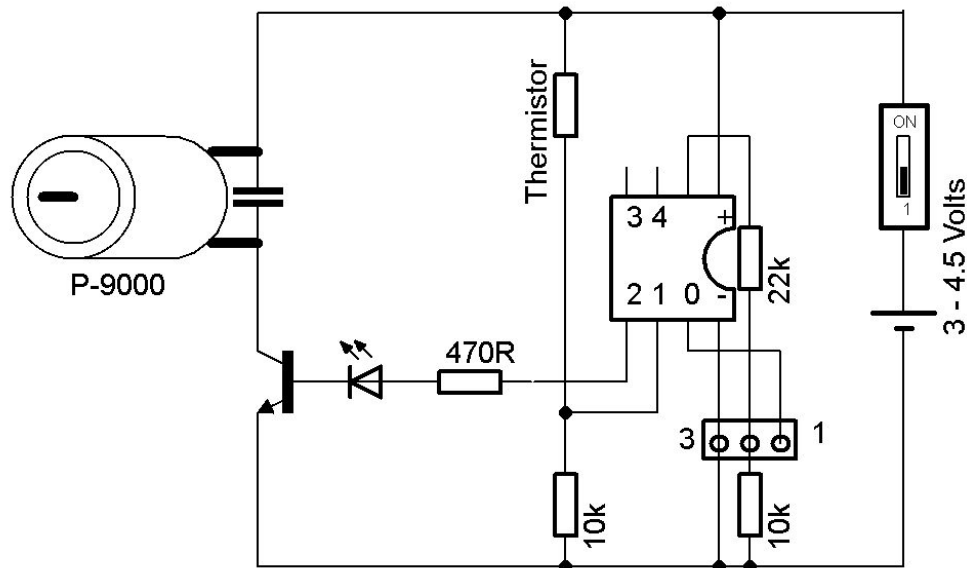
'IF the b1 pin 1 readadc drops below 100 THEN do the following

'Switch on the transistor and motor on pin 2

'Otherwise

'Switch off the transistor and motor on pin 2

'End of If – then – Else statement 'block of code'



- The thermistor potential divider circuit on pin 1 senses a change in temperature that turns ON or OFF the fan motor via pin 2 and the 470 Ohm resistor and indicator LED
- The sertxd command is used to set up and 'fine tune' the temperature trigger point. Press the F8 key to open the serial terminal window and choose 4800 baud
- Other sensors like an LDR can be used in place of the thermistor
- See Help Section PICAXE Manual I Tutorial 6– Using Analogue Inputs for more circuits, ideas and programming tips
- Look up the 'Light LDR Eyes' template for a very sensitive circuit that is immune to changes in the ambient light level