

1.

How is this circuit, or a circuit like it, used in everyday life? Provide at least three examples.

Does your temperature sensor work? Great

2.

What line in the code displays the temperature?

3.

What other line in the code is necessary to establish communication with your computer so it can display the temperature?

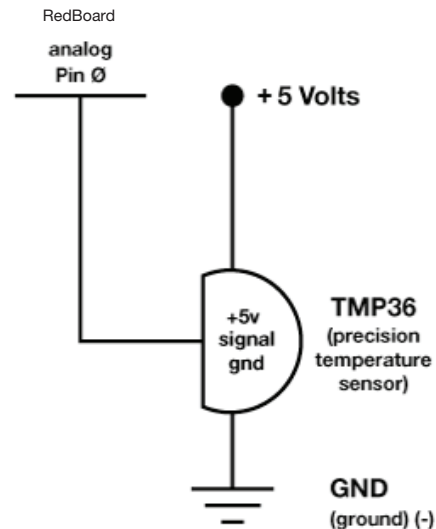
4.

Upload the Circ10Expansion Code to your RedBoard, then add an LED and a resistor to the circuit. Control the LED's brightness with the temperature sensor. By now you should be able to do this with no help, but here's a hint anyways: PWM pins = 3, 5, 6, 9, 10, 11

5.

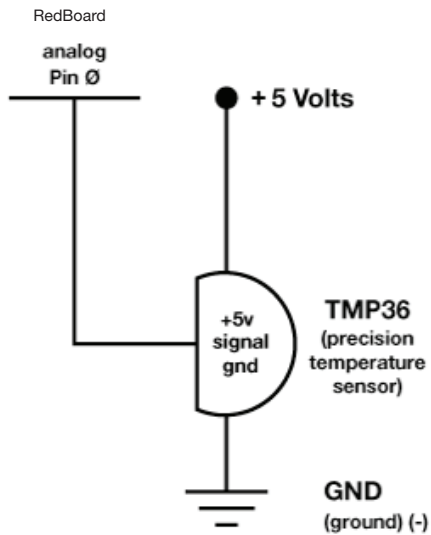
Draw arrows on the dotted line to indicate direction of current flow.

Circuit:



Circuit #7 Temperature Sensor

Circuit:



7.

What ways, other than controlling an air conditioner, could a temperature sensor be useful? List at least three and explain what is controlled by the temperature sensor in each.

6.

Draw a logic flow chart of the circuit here:

8.

Draw one example of how this circuit could be used in everyday life. Label all components and give it a title.