

# Temperature Sensor and the Serial Monitor

This simple project will take a temperature reading from the Temp Sensor and relay the findings to the Serial Monitor.

To build our circuit with Arduino Uno, follow the steps below:

1. Connect Arduino Uno GND to LM35 GND
2. Connect Arduino 5V pin to LM35 pin 1
3. Connect Arduino Uno Analog Pin 1 to LM35 pin OUT

## Arduino code below(calculates for Celsius)

```
int pinTemp = A1;    //This is where our Output data goes
void setup() {
  Serial.begin(9600);
}
void loop() {
  int temp = analogRead(pinTemp);    //Read the analog pin
  temp = temp * 0.48828125;    // convert output (mv) to
  readable celcius
  Serial.print("Temperature: ");
  Serial.print(temp);
  Serial.println("C");    //print the temperature status
  delay(1000);
}
```

