

We can make the Uno print out values and view fritzing them using the Serial Monitor

```
tmp36
#define TEMP 0
#define LED 6
void setup() {
    Serial.begin(9600); // set up Serial monitor
    pinMode(LED,OUTPUT);
}
void loop() {
    digitalWrite(LED, HIGH);
    int reading = analogRead(TEMP); // read from sensor
    float voltage = reading * 5.0; // convert voltage
    voltage /= 1024.0;
    //Serial.print(voltage); // print to serial monitor
    //Serial.println(" volts");
    float celsius = (voltage - 0.5) * 100; // convert to celsius
    Serial.print(celsius); //print to serial monitor
    Serial.println(" degrees C");
    delay(100);
    digitalWrite(LED,LOW);
    delay(900);
}
```





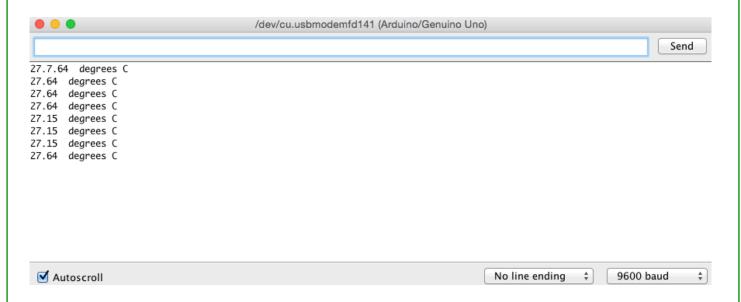
TMP36 temp sensor



ANALOG: TEMPERATURE SENSOR



Click on Tools -> Serial Monitor



Can you also print out the temperature in Fahrenheit? $F = (C \times 9/5) + 32)$

We can also plot graphs. Comment out lines in the code so that it only prints the Celsius readings. Then click on Tools -> Serial Plotter

