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TASK #4.1 - Analog Sensor

TMP36 is analog sensor using analog pins, analog sensor can take more than two values.

I make a circuit using **tinkercad,** TMP36 circuit using both of Arduino uno and TMP36 and wires.
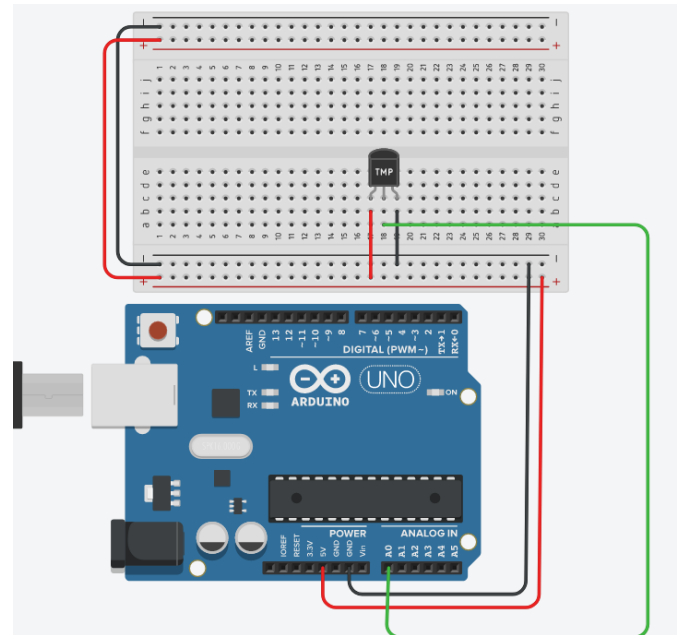
Figure 1 TMP36 CIRCUIT

CODE

```
int sensorPin = 0;
void setup()
{
   Serial.begin(9600);
}
void loop()
{
  int reading = analogRead(sensorPin);
  // measure the 5v with a meter for an accurate value
  //In particular if your Arduino is USB powered
  float voltage = reading * 4.68;
  voltage /= 1024.0;
  // now print out the temperature
  float temperatureC = (voltage - 0.5) * 100;
  Serial.print(temperatureC);
  Serial.println(" degrees C");
  delay(1000);
 }
```

Figure 2 CODE