if (temperature > BASELINE\_TEMP) {

Serial.print(", ");

Serial.print(temperature - BASELINE\_TEMP);

Serial.println(" above baseline temp");

}

else if (temperature < BASELINE\_TEMP) {

Serial.print(", ");

Serial.print(BASELINE\_TEMP - temperature);

Serial.println(" below baseline temp");

}

float BASELINE\_TEMP = 0;

int sensorVal = analogRead(SENSOR\_PIN);

float voltage = (sensorVal / 1023.0) \* 5.0;

float temperature = (voltage - 0.5) \* 100;

BASELINE\_TEMP = temperature;

sensorVal = analogRead(SENSOR\_PIN);

for (int pinNumber = 2; pinNumber < 5; pinNumber++)

if (temperature < BASELINE\_TEMP + 2) {

digitalWrite(2, LOW);

digitalWrite(3, LOW);

digitalWrite(4, LOW);

} else if (temperature < BASELINE\_TEMP + 4) {

digitalWrite(2, HIGH);

digitalWrite(3, LOW);

digitalWrite(4, LOW);

}

else if (temperature < BASELINE\_TEMP + 6) {

digitalWrite(2, HIGH);

digitalWrite(3, HIGH);

digitalWrite(4, LOW);

} else if (temperature < BASELINE\_TEMP + 8) {

digitalWrite(2, HIGH);

digitalWrite(3, HIGH);

digitalWrite(4, HIGH);

digitalWrite(5, LOW);

}

else {

digitalWrite(2, HIGH);

digitalWrite(3, HIGH);

digitalWrite(4, HIGH);

digitalWrite(5, HIGH);

delay(250);

digitalWrite(2, HIGH);

digitalWrite(3, HIGH);

digitalWrite(4, HIGH);

digitalWrite(5, HIGH);

delay(250);

}

delay(1);

}