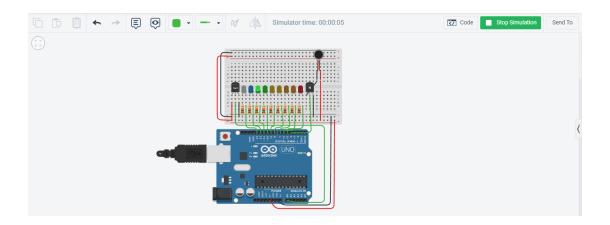
## **Temperature Sensor and Buzzer With Arduino**

## **DIAGRAM:**



## **CODE:**

```
const int white = 13;
const int blue = 12;
const int green1 = 11;
const int green2 = 10;
const int yellow1 = 9;
const int yellow2 = 8;
const int orange1 = 7;
const int orange2 = 6;
const int red = 5;
const int buzzer = 4;
int baselineTemp = 0;
int celsius = 0;
void setup()
 pinMode(A0, INPUT);
 Serial.begin(9600);
 pinMode(green2, OUTPUT);
 pinMode(yellow2, OUTPUT);
 pinMode(red, OUTPUT);
 pinMode(green1, OUTPUT);
 pinMode(yellow1, OUTPUT);
 pinMode(orange1, OUTPUT);
 pinMode(orange2, OUTPUT);
```

```
pinMode(blue, OUTPUT);
 pinMode(white, OUTPUT);
 pinMode(buzzer, OUTPUT);
void loop()
 baselineTemp = 0;
 celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
 if (celsius < baselineTemp) {
  digitalWrite(white, LOW);
  digitalWrite(blue, LOW);
  digitalWrite(green1, LOW);
   digitalWrite(green2, LOW);
   digitalWrite(yellow1, LOW);
   digitalWrite(yellow2, LOW);
   digitalWrite(orange1, LOW);
   digitalWrite(orange2, LOW);
   digitalWrite(red, LOW);
  digitalWrite(buzzer, LOW);
   whiteflashing();
 if (celsius >= baselineTemp && celsius < baselineTemp + 15) {
  digitalWrite(white, LOW);
  digitalWrite(blue, HIGH);
  digitalWrite(green1, LOW);
   digitalWrite(green2, LOW);
   digitalWrite(yellow1, LOW);
   digitalWrite(yellow2, LOW);
   digitalWrite(orange1, LOW);
  digitalWrite(orange2, LOW);
  digitalWrite(red, LOW);
  digitalWrite(buzzer, LOW);
 if (celsius >= baselineTemp + 15 && celsius < baselineTemp + 30) {
  digitalWrite(white, LOW);
  digitalWrite(blue, LOW);
  digitalWrite(green1, HIGH);
   digitalWrite(green2, LOW);
   digitalWrite(yellow1, LOW);
   digitalWrite(yellow2, LOW);
  digitalWrite(orange1, LOW);
  digitalWrite(orange2, LOW);
  digitalWrite(red, LOW);
  digitalWrite(buzzer, LOW);
 if (celsius >= baselineTemp + 30 && celsius < baselineTemp + 45) {
 digitalWrite(white, LOW);
```

```
digitalWrite(blue, LOW);
 digitalWrite(green1, HIGH);
 digitalWrite(green2, HIGH);
 digitalWrite(yellow1, LOW);
 digitalWrite(yellow2, LOW);
 digitalWrite(orange1, LOW);
 digitalWrite(orange2, LOW);
 digitalWrite(red, LOW);
 digitalWrite(buzzer, LOW);
if (celsius >= baselineTemp + 45 && celsius < baselineTemp + 60) {
 digitalWrite(white, LOW);
 digitalWrite(blue, LOW);
 digitalWrite(green1, LOW);
 digitalWrite(green2, LOW);
 digitalWrite(yellow1, HIGH);
 digitalWrite(yellow2, LOW);
 digitalWrite(orange1, LOW);
 digitalWrite(orange2, LOW);
 digitalWrite(red, LOW);
 digitalWrite(buzzer, LOW);
if (celsius \geq baselineTemp + 60 && celsius \leq baselineTemp + 75){
 digitalWrite(white, LOW);
 digitalWrite(blue, LOW);
 digitalWrite(green1, LOW);
 digitalWrite(green2, LOW);
 digitalWrite(yellow1, HIGH);
 digitalWrite(yellow2, HIGH);
 digitalWrite(orange1, LOW);
 digitalWrite(orange2, LOW);
 digitalWrite(red, LOW);
 digitalWrite(buzzer, LOW);
if (celsius \geq baselineTemp + 75 && celsius \leq baselineTemp + 90){
 digitalWrite(white, LOW);
 digitalWrite(blue, LOW);
 digitalWrite(green1, LOW);
 digitalWrite(green2, LOW);
 digitalWrite(yellow1, LOW);
 digitalWrite(yellow2, LOW);
 digitalWrite(orange1, HIGH);
 digitalWrite(orange2, LOW);
 digitalWrite(red, LOW);
 digitalWrite(buzzer, LOW);
if (celsius \geq baselineTemp + 90 && celsius \leq baselineTemp + 100){
 digitalWrite(white, LOW);
 digitalWrite(blue, LOW);
 digitalWrite(green1, LOW);
```

```
digitalWrite(green2, LOW);
   digitalWrite(yellow1, LOW);
   digitalWrite(yellow2, LOW);
   digitalWrite(orange1, HIGH);
   digitalWrite(orange2, HIGH);
   digitalWrite(red, LOW);
  digitalWrite(buzzer, LOW);
 if (celsius \geq baselineTemp + 100){
       digitalWrite(white, LOW);
   digitalWrite(blue, LOW);
   digitalWrite(green1, LOW);
   digitalWrite(green2, LOW);
   digitalWrite(yellow1, LOW);
   digitalWrite(yellow2, LOW);
   digitalWrite(orange1, LOW);
   digitalWrite(orange2, LOW);
  digitalWrite(buzzer, LOW);
  redflashing();
 delay(100);
void redflashing(){
 digitalWrite(buzzer, HIGH);
 digitalWrite(red, HIGH);
 delay(500);
 digitalWrite(red, LOW);
 delay(500);
void whiteflashing(){
 digitalWrite(buzzer, HIGH);
 digitalWrite(white, HIGH);
 delay(500);
 digitalWrite(white, LOW);
 delay(500);
```