

Experiment no 3

```
#include <DHT11.h>

DHT11 dht11(2);

const int Active_buzzer = 3; const float

TempMin = 26.0; const float TempMax = 27.0;

void setup()
{
Serial.begin(9600);

pinMode (Active_buzzer,OUTPUT);
}

void loop()
{
int temperature = dht11.readTemperature();

int humidity = dht11.readHumidity();

if (temperature != DHT11::ERROR_CHECKSUM && temperature != DHT11::ERROR_TIMEOUT && humidity != DHT11::ERROR_CHECKSUM && humidity != DHT11::ERROR_TIMEOUT)

{

Serial.print("Temperature: ");

Serial.print(temperature);

Serial.println(" °C");

Serial.print("Humidity: ");

Serial.print(humidity);

Serial.println(" %");

if (temperature < TempMin || TempMax < temperature) digitalWrite(Active_buzzer, LOW); // on
else

digitalWrite(Active_buzzer, HIGH); // off
}
else
{
if (temperature == DHT11::ERROR_TIMEOUT || temperature == DHT11::ERROR_CHECKSUM)
{
Serial.print("Temperature Reading Error: ");
Serial.println(DHT11::getErrorString(temperature));
}
if (humidity == DHT11::ERROR_TIMEOUT || humidity == DHT11::ERROR_CHECKSUM)
{
Serial.print("Humidity Reading Error: ");

Serial.println(DHT11::getErrorString(humidity));
}
}
delay(1000);
}
```