

## 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);
}
```