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#include <SoftwareSerial.h>
#include <stdlib.h>
#include <SimpleDHT.h>

int pinDHT11 = 8;
SimpleDHT11 dht11;

SoftwareSerial esp8266(2,3); // 2 TX-TX, 3 RX-RX, CH_PD-VCC

void setup() {
  // put your setup code here, to run once:
  pinMode(12,OUTPUT);
  Serial.begin(9600);
  esp8266.begin(9600);
}

void loop() {
  // put your main code here, to run repeatedly:

  byte temperature;
  byte humidity;
  int err = SimpleDHTErrSuccess;
  if ((err = dht11.read(pinDHT11, &temperature, &humidity, NULL)) !=
SimpleDHTErrSuccess) {
    Serial.print("Read DHT11 failed, err=");
    Serial.println(err);
    delay(500);
  }
  else{
    Serial.print("Temperature - ");
    Serial.print(temperature);
    Serial.print("*C || ");
    Serial.print("Humidity - ");
    Serial.print(humidity);
    Serial.println("%");

    // Sending data to ESP
    esp8266.print(temperature);
    esp8266.print(humidity);
    Serial.println("Data Transmitted....");

    String led;
    while(esp8266.available()){
      led = (char)esp8266.read();
      Serial.println(led);
    }

    if(led.length()==1){
      if(led.equals("1")){
        digitalWrite(12,HIGH);
      }else{
        digitalWrite(12,LOW);
      }
    }
  }
}

```

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    // DHT11 sampling rate is 1HZ (200ms)
    delay(2000);
  }
}
```