int ledPin = 13; // use the built in LED on pin 13 of the Uno

int state = 0;

int flag = 0; // make sure that you return the state only once

void setup() {

// sets the pins as outputs:

pinMode(ledPin, OUTPUT);

digitalWrite(ledPin, LOW);

Serial.begin(9600); // Default connection rate for my BT module

}

void loop() {

//if some data is sent, read it and save it in the state variable

if(Serial.available() > 0){

state = Serial.read();

flag=0;

}

// if the state is 0 the led will turn off

if (state == '0') {

digitalWrite(ledPin, LOW);

if(flag == 0){

Serial.println("LED: off");

flag = 1;

}

}

// if the state is 1 the led will turn on

else if (state == '1') {

digitalWrite(ledPin, HIGH);

if(flag == 0){

Serial.println("LED: on");

flag = 1;

}

}

}

