Stuff needed:

Arduino Nano

BT Sparkfun

5 Wires

Wiring:

Nano	Bluetooth
3.3V	3.3V
GND	GND
D11	RX
D12	TX
D8	PIO2

Code is on the next page

```
#include <SoftwareSerial.h>
int led_pin = 13; //the standard LED onboard the Nano.
int BT_status_pin = 8; //the standard LED onboard the Nano.
int led_state = 0; //the State of the LED 0 = off
int led_flag = 0; //to see in the next itteration, that the lamp is ON already
SoftwareSerial BTSerial(10, 11); // RX, TX - used to not block the programmer

void setup()
{
	//init the LED
	pinMode(led_pin, OUTPUT);
	pinMode(BT_status_pin, INPUT);
	//Turn it off initaly
	digitalWrite(led_pin, LOW);
	Serial.begin(9600);//USB
	BTSerial.begin(115200);//Bluetooth
}



void loop()
{
	if (digitalRead(BT_status_pin)==1)//check the statuspin
	{
		digitalWrite(led_pin, HIGH);//turn LED off
	}
	else
	{

		digitalWrite(led_pin, LOW);//turn LED off
	}
}
```