

```
1 /*****  
2 #include <SoftwareSerial.h>  
3  
4 SoftwareSerial bluetooth(7, 8);  
5  
6 String send_arr = "0,0,0,0";  
7  
8 *****/  
9 void setup() {  
10  
11   Serial.begin(9600);  
12   bluetooth.begin(9600);  
13  
14   Serial.println("HELLO!");  
15  
16   pinMode(3, OUTPUT);  
17   analogWrite(3, 0);  
18 }  
19  
20 *****/  
21 void loop() {  
22  
23   if (bluetooth.available()) {  
24  
25     String str_led = bluetooth.readString();  
26  
27     Serial.print(str_led);  
28  
29     if (str_led == "on") analogWrite(3, 180);  
30     else if (str_led == "off") analogWrite(3, 0);  
31     else if (str_led == "bright") {  
32       for (int i = 0; i <= 210; i++) {  
33         analogWrite(3, i);  
34         Serial.println(i);  
35       }  
36       for (int i = 210; i >= 0; i--) {  
37         analogWrite(3, i);  
38         Serial.println(i);  
39       }  
40     } else if (str_led == "values") {  
41       send_arr = "10,20,30,40";  
42       bluetooth.println(send_arr);  
43       delay(2000);  
44       send_arr = "50,60,70,80";  
45       bluetooth.println(send_arr);  
46       delay(2000);  
47       send_arr = "89,19,34,20";  
48       bluetooth.println(send_arr);  
49       delay(2000);  
50     }  
51   }  
52  
53 }
```