

```
int data=0;
int light1=2;

char state='0';

void setup() {Serial.begin(115200);
  // put your setup code here, to
run once:
  pinMode(light1,OUTPUT);

}

void loop() {
  // put your main code here, to
run repeatedly:
  if(Serial.available()>0){ //
Reads from bluetooth and stores its
    state = Serial.read(); }
  Serial.println(state);
```

```
        if (state==2 ||
state=='2') {
            Serial.println(state);

            digitalWrite(light1, HIGH);}
            if (state==5 ||
state=='5') {
                Serial.println(state);
                digitalWrite(light1, LOW);
            }
Serial.println(state);
analogWrite(light1,data);

    }
```