#include <Servo.h>

Servo myservo;

int pos = 0;

int data;

char serial;

void setup() {

Serial.begin(9600); // set the baud rate

Serial.println("Ready"); // print "Ready" once

pinMode(LED\_BUILTIN, OUTPUT);

myservo.attach(9);

}

void loop() {

myservo.write(90);

if(Serial.available() > 0)

{

serial = Serial.read();

//Serial.println( serial, HEX);

if (serial=='0')

{

digitalWrite(LED\_BUILTIN,LOW);

Serial.println("Light OFF");

myservo.write(180);

delay(2000);

myservo.write(90);

// delay(2000);

}

if (serial=='1')

{

digitalWrite(LED\_BUILTIN,HIGH);

Serial.println("Light ON");

myservo.write(0);

delay(2000);

myservo.write(90);

//delay(2000);

}

}

}