#include <Servo.h>

const int ledGreenPin = 10;

const int ledRedPin = 9;

int potPin = A0;

int position = 0;

Servo servoMotor;

void setup()

{

Serial.begin(9600);

pinMode(ledGreenPin, OUTPUT);

pinMode(ledRedPin, OUTPUT);

servoMotor.attach(11);

}

void loop()

{

position = analogRead(potPin);

position = map(position, 0, 1023, 0, 90);

if(position == 90){

digitalWrite(ledRedPin, HIGH);

}

if(position >=1 && position < 90){

digitalWrite(ledRedPin, LOW);

digitalWrite(ledGreenPin, LOW);

}

else if (position == 0){

digitalWrite(ledGreenPin, HIGH);

}

servoMotor.write(position);

Serial.println(position);

}