#include <Servo.h>

Servo s1;

Servo s2;

int pot1 = 1;

int pot2 = 3;

int val1 = 0;

int val2 = 0;

void setup() {

s1.attach(12);

s2.attach(13);

Serial.begin(9600);

}

void loop() {

val1 = analogRead(pot1);

val2 = analogRead(pot2);

while((val1 >= 400 && val1 <= 700) && (val2 >= 475 && val2 <= 775))

{

//stop

s1.writeMicroseconds(1500);

s2.writeMicroseconds(1500);

}

while((val1 < 400) && (val2 >= 475 && val2 <= 775))

{

//full forward

s1.writeMicroseconds(1000);

s2.writeMicroseconds(20000);

}

while((val1 > 700) && (val2 >= 475 && val2 <= 775))

{

//full reverse

s1.writeMicroseconds(1000);

s2.writeMicroseconds(2000);

}

while((val1 >= 400 && val1 <= 700) && (val2 > 775))

{

//turn left

s1.writeMicroseconds(1000);

s2.writeMicroseconds(1000);

}

while((val1 >= 400 && val1 <= 700) && (val2 > 775))

{

//turn right

s1.writeMicroseconds(2000);

s2.writeMicroseconds(2000);

}

Serial.println(String(val1) + "-" + String(val2));

}