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#include "XL320.h"

// Name your robot!
XL320 robot;

// If you want to use Software Serial, uncomment this line
#include <SoftwareSerial.h>

// Set the SoftwareSerial RX & TX pins
SoftwareSerial mySerial(10, 11); // (RX, TX)

// Set some variables for incrementing position & LED colour
char rgb[] = "rgbypcwo";
int servoPosition = 0;

// Set the default servoid to talk to
int servoid = 1;

int MArr = 6; // Arduino PWM output pin 5; connect to IBT-2 pin 1 (RPWM) /Avant
int MAvant = 5; // Arduino PWM output pin 6; connect to IBT-2 pin 2 (LPWM) /Arrière
int avant = 12;
int arriere = 13;

int C1 = A0;
int C2 = A1;
int C3 = A2;
int CV1 = 0;
int CV2 = 0;
int CV3 = 0;

int obstaD = 0;
int obstaG = 0;

void setup() {

    // Talking standard serial, so connect servo data line to Digital TX 1
    // Comment out this line to talk software serial
    Serial.begin(115200);

    // Setup Software Serial
    mySerial.begin(115200);

    // Initialise your robot
    robot.begin(Serial); // Hand in the serial object you're using

    // I like fast moving servos, so set the joint speed to max!
    robot.setJointSpeed(servoid, 1023); //out of 1023

    pinMode(MArr, OUTPUT);
    pinMode(MAvant, OUTPUT);
    pinMode(avant, OUTPUT);
    pinMode(arriere, OUTPUT);
}

void loop() {
    digitalWrite(avant, HIGH);
    digitalWrite(arriere, HIGH);
    int PWMarr = 150;
    int PWMavant = 60;
}

```

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CV1 = analogRead(C1);
Serial.println(CV1);
CV2 = analogRead(C2);
CV3 = analogRead(C3);
CV2 = CV2 + 50;
CV3 = CV3 - 30;
int DCV = 0;
DCV = abs(CV2 - CV3);
if (DCV < 90) {
    CV2 = 0;
    CV3 = 0;
}

if (CV1 < 75) {
    analogWrite(MArr, 0);
    analogWrite(MAvant, PWMavant);
    delay(10);

}
else {
    analogWrite(MArr, PWMarr);
    analogWrite(MAvant, 0);
    delay(10);
}

if (CV1 > 100 && CV2 > CV3) {
    robot.moveJoint(1, 420);
    analogWrite(MArr, PWMarr);
    analogWrite(MAvant, 0);
    delay(450);
} else {
    if (CV1 > 100 && CV2 < CV3) {
        robot.moveJoint(1, 235);
        analogWrite(MArr, PWMarr);
        analogWrite(MAvant, 0);
        delay(450);
    } else {
        if (CV1 > 100 && CV2 == CV3) {
            robot.moveJoint(1, 308);
            analogWrite(MArr, PWMarr);
            analogWrite(MAvant, 0);
            delay(450);
        }
    else {
        analogWrite(MArr, 0);
        analogWrite(MAvant, PWMavant);
        robot.moveJoint(1, 308);
        delay(100);
    }
}
}

obstaD = 0;
}

```