#include <SoftwareSerial.h>

#include <IRremote.h>

const int RECV\_PIN = 7;

IRrecv irrecv(RECV\_PIN);

decode\_results results;

//L293D

//Motor A

const int motorPin1 = 5; // Pin 14 of L293

const int motorPin2 = 6; // Pin 10 of L293

//Motor B

const int motorPin3 = 10; // Pin 7 of L293

const int motorPin4 = 9; // Pin 2 of L293

void setup(){

Serial.begin(9600); //starts serial communication

irrecv.enableIRIn(); // Starts the receiver

//Set pins as outputs

pinMode(motorPin1, OUTPUT);

pinMode(motorPin2, OUTPUT);

pinMode(motorPin3, OUTPUT);

pinMode(motorPin4, OUTPUT);

}

void loop(){

//decodes the infrared input

if (irrecv.decode(&results)){

long int decCode = results.value;

Serial.println(results.value);

//switch case to use the selected remote control button

switch (results.value){

case 16580863: //when you press the button 1

digitalWrite(motorPin1, HIGH);

digitalWrite(motorPin2, LOW);

digitalWrite(motorPin3, HIGH);

digitalWrite(motorPin4, LOW);

break;

case 16615543: //when you press the button 2

digitalWrite(motorPin1, LOW);

digitalWrite(motorPin2, HIGH);

digitalWrite(motorPin3, LOW);

digitalWrite(motorPin4, LOW);

break;

case 16599223: //when you press the button 3

digitalWrite(motorPin1, LOW);

digitalWrite(motorPin2, LOW);

digitalWrite(motorPin3, HIGH);

digitalWrite(motorPin4, LOW);

break;

case 16591063: //when you press the button 4

digitalWrite(motorPin1, LOW);

digitalWrite(motorPin2, LOW);

digitalWrite(motorPin3, LOW);

digitalWrite(motorPin4, HIGH);

break;

case 16623703: //when you press the button 5

digitalWrite(motorPin1, LOW);

digitalWrite(motorPin2, LOW);

digitalWrite(motorPin3, LOW);

digitalWrite(motorPin4, LOW);

break;

}

irrecv.resume(); // Receives the next value from the button you press

}

delay(10);

}