#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);

}