#include <IRremote.h>

#include <Wire.h>

IRsend irsend;

enum ir\_command {Undefined, Forward, Reverse, Stop,

LeftSpin, RightSpin, LeftForward, RightForward, LeftReverse, RightReverse,

Record, Replay1, Replay2, Replay3, Replay4};

int data = 0;

//int old\_data = 0;

bool new\_data = false;

void setup()

{

Serial.begin(9600);

Serial.println("IR Gesture Sender");

Serial.println("======================");

Wire.begin(4);

Wire.onReceive(receiveEvent);

}

void loop() {

if (new\_data) {

int copy\_data = data;

// output = PWM pin3, 200ohm range = 3 feet, 100ohm range = 5 feet

char \*gesture = "Undefined";

switch (copy\_data) {

case Forward: irsend.sendNEC(0xFFAA55,32); gesture = "Forward"; break;

case Reverse: irsend.sendNEC(0xFF629D,32); gesture = "Reverse"; break;

case Stop: irsend.sendNEC(0xFF6A95,32); gesture = "Stop"; break;

case LeftSpin: irsend.sendNEC(0xFF5AA5,32); gesture = "LeftSpin"; break;

case RightSpin: irsend.sendNEC(0xFF4AB5,32); gesture = "RightSpin"; break;

default: break;

}

new\_data = false;

Serial.println("I2C\_slave(4): transmitted gesture = " + String(gesture));

}

}

void receiveEvent(int howMany)

{

data = Wire.read();

new\_data = true;

//Serial.println(data);

}