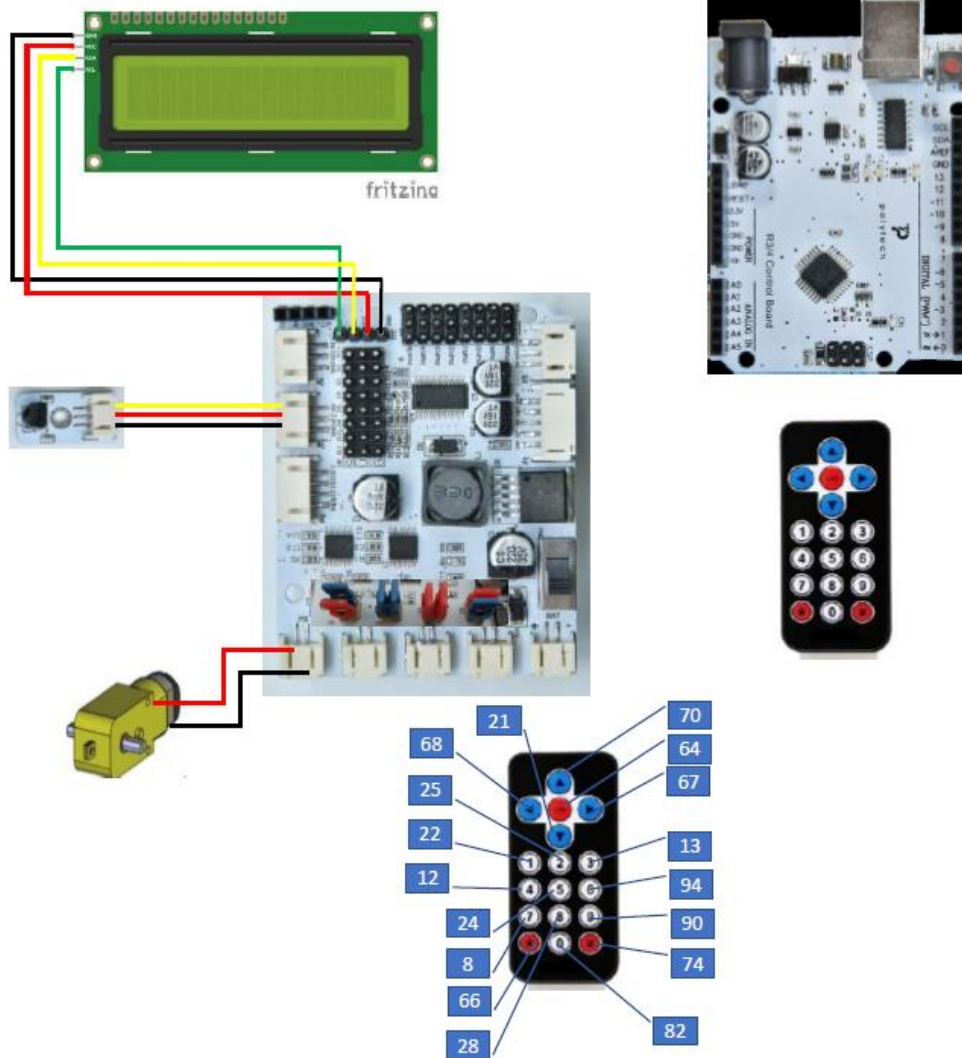




```
#include <Wire.h>
#include <IRremote.h>
#include <LiquidCrystal_I2C.h>
#include <Adafruit_PWMServoDriver.h>

LiquidCrystal_I2C lcd(0x27, 16, 2);
Adafruit_PWMServoDriver pwm = Adafruit_PWMServoDriver(0x47);

int trigPin = 12;
int echoPin = 13;
int RECV_PIN = A0;
int speed = 1000;

int key = 0;
int posar = 0;
int orofosar = 0;
int momove = 0;

void setup() {
  Serial.begin(9600);
```

```

pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);
pinMode(3, OUTPUT);
pwm.begin();
pwm.setPWMFreq(60);

IrReceiver.begin(RECV_PIN);

lcd.init();
lcd.backlight();
lcd.clear();

}

void loop() {
  if (IrReceiver.decode()) {

    key = IrReceiver.decodedIRData.command;

    if (key == 66) {
      lcd.setCursor(3, 1);
      lcd.print(" ISOGEIO. ");
      posar = 0;

    }
    if (key == 8) {
      lcd.setCursor(3, 1);
      lcd.print("1os OROFOS");
      posar = 1;

    }
    if (key == 12) {
      lcd.setCursor(3, 1);
      lcd.print("2os OROFOS");
      posar = 2;

    }
    if (key == 22) {
      lcd.setCursor(3, 1);
      lcd.print("3os OROFOS");
      posar = 3;

    }
    if (key == 82) {
      lcd.setCursor(3, 1);
      lcd.print(" ISOGEIO. ");
      posar = 0;

    }
    if (key == 28) {
      lcd.setCursor(3, 1);
      lcd.print("1os OROFOS");
      posar = 1;
    }
  }
}

```

```

}
if (key == 24) {
    lcd.setCursor(3, 1);
    lcd.print("2os OROFOS");
    posar = 2;

}
if (key == 25) {
    lcd.setCursor(3, 1);
    lcd.print("3os OROFOS");
    posar = 3;

}
if (key == 74){
    orofosar = 0;
}
if (key == 90){
    orofosar = 1;
}
if (key == 94){
    orofosar = 2;
}
if (key == 13){
    orofosar = 3;
}
momove = (posar - orofosar);
if (momove == 0){
    lcd.setCursor(0, 0);
    lcd.print("    OPEN DOORS    ");
    pwm.setPWM(0, 0, 0);
    pwm.setPWM(1, 0, 0);
    pwm.setPWM(0, 0, 0);
    pwm.setPWM(1, 0, 0);

}
if (momove > 0){
    lcd.setCursor(0, 0);
    lcd.print("        UP        ");
    pwm.setPWM(0, 0, speed);
    pwm.setPWM(1, 0, 0);
}
if (momove < 0){
    lcd.setCursor(0, 0);
    lcd.print("        DOWN        ");
    pwm.setPWM(0, 0, 0);
    pwm.setPWM(1, 0, speed);
}

IrReceiver.resume();
}
}

```