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int fatPin1 = 11;
int fatPin2 = 10;
int fatPin3 = 9;
int relayPin1 = 7;
int relayPin2 = 6;

int pirPin1 = 12;           // pir sensor 1
int pirPin2 = 13;           // pir sensor 2

int fatPinArray[] = {9, 10, 11};
int chosenFatPin = 0;

int relayPinArray[] = {6, 7};
int chosenRelayPin = 0;

int analogNoisePin = 2;     // wire connected for random
int randomNoise = 0;        // store the above

void setup(){
    pinMode(fatPin1, OUTPUT);
    pinMode(fatPin2, OUTPUT);
    pinMode(fatPin3, OUTPUT);

    pinMode(relayPin1, OUTPUT);
    pinMode(relayPin2, OUTPUT);

    pinMode(pirPin1, INPUT);
    pinMode(pirPin2, INPUT);

    Serial.begin(9600);
}

void loop() {
    if (digitalRead(pirPin1) && digitalRead(pirPin2)) {
        megaShow();
    } else if (digitalRead(pirPin1) || digitalRead(pirPin2)) {
        megaHit();
    } else {
        silentNights();
    }

    //printSensors();
    //randomTunes();
    //checkFatRange();
}

void silentNights(){
    randomNoise = analogRead(analogNoisePin);
    //~ Serial.println(randomNoise % 10);
    analogWrite(fatPinArray[chosenFatPin], randomNoise % 30);
    delay(randomNoise % 15);
    digitalWrite(fatPinArray[chosenFatPin], LOW);
    delay(randomNoise % 30);
    if (randomNoise % 12 == 3) delay(1000);

    if (randomNoise % 15 == 3) {
        chosenFatPin++;
        chosenFatPin = chosenFatPin % 3;
    }
}

```

```
void megaHit(){  
    int val = 0;  
    for(val = 0; val < 15; val++){  
        analogWrite(fatPinArray[val % 3], val * 5);  
        delay(10);  
        digitalWrite(fatPinArray[val % 3], LOW);  
        delay(10);  
        digitalWrite(relayPinArray[val % 2], HIGH);  
        delay(10);  
        digitalWrite(relayPinArray[val % 2], LOW);  
    }  
}  
  
void megaShow() {  
    int val = 0;  
    for (val = 50; val < 300; val=val+40){  
        analogWrite(fatPin3, val);  
        delay(50);  
        digitalWrite(fatPin3, LOW);  
        delay(220 - val / 2);  
  
        digitalWrite(relayPin2, HIGH);  
        delay(50);  
        digitalWrite(relayPin2, LOW);  
        delay(220 - val / 2);  
  
        analogWrite(fatPin2, val);  
        delay(50);  
        digitalWrite(fatPin2, LOW);  
        delay(220 - val / 2);  
  
        analogWrite(fatPin1, val);  
        delay(50);  
        digitalWrite(fatPin1, LOW);  
        delay(220 - val / 2);  
  
        digitalWrite(relayPin1, HIGH);  
        delay(50);  
        digitalWrite(relayPin1, LOW);  
        delay(220 - val / 2);  
    }  
}  
  
void printSensors(){  
    Serial.println(digitalRead(pirPin1));  
    Serial.println(digitalRead(pirPin2));  
    Serial.println(digitalRead(analogNoisePin));  
}  
  
void checkFatRange(){  
    int i=0;  
    for (i=0; i<200; i++){  
        Serial.println(i);  
        analogWrite(fatPin1, i);  
        delay(50);  
        digitalWrite(fatPin1, LOW);  
        delay(50);  
    }  
    // result: 0-200  
}
```