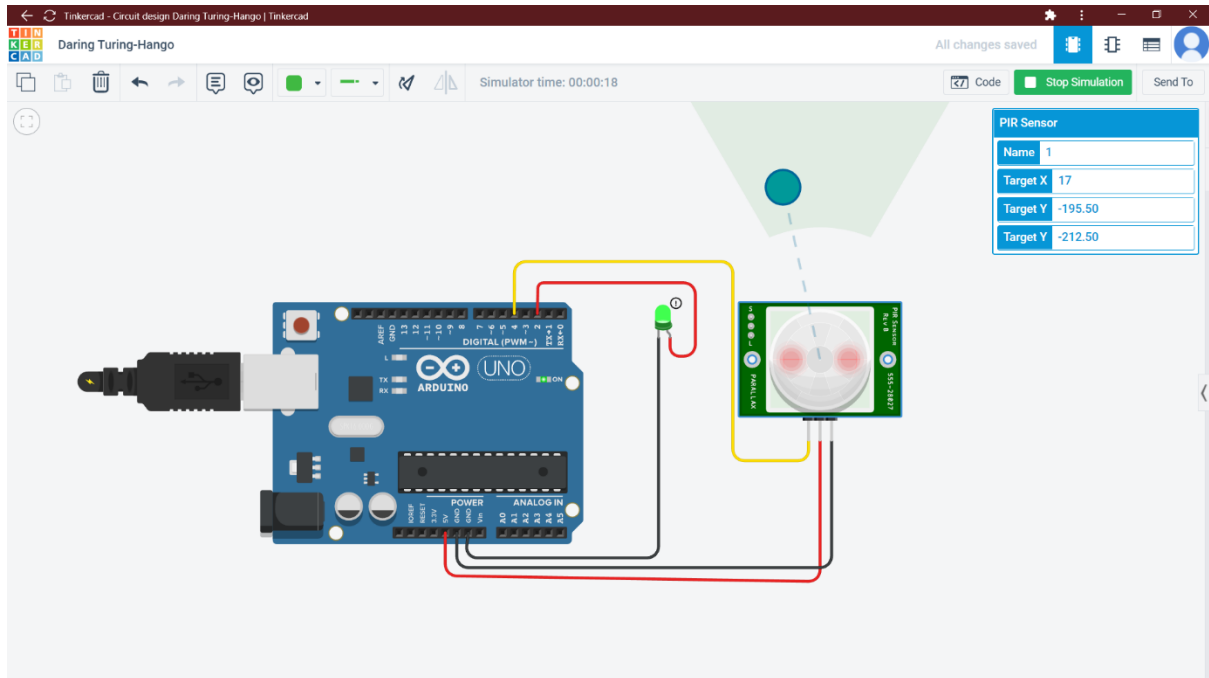# Home automation

Automatic lights control with PIR motion sensor

Circuit:

Code:

```
int ledPin = 2;

int inputPin = 4;

int pirState = LOW;

int val = 0;

void setup() {

        pinMode(ledPin, OUTPUT);

        pinMode(inputPin, INPUT);

        Serial.begin(9600);

}

void loop() {

        val = digitalRead(inputPin);

        if (val == HIGH) {

                digitalWrite(ledPin, HIGH);

        if (pirState == LOW) {
```

```
                    Serial.println("Motion detected!");

                    pirState = HIGH;

        }

    }

    else {

            digitalWrite(ledPin, LOW);

    if (pirState == HIGH) {

                    Serial.println("Motion ended!");

                    pirState = LOW;

        }

    }

}
```