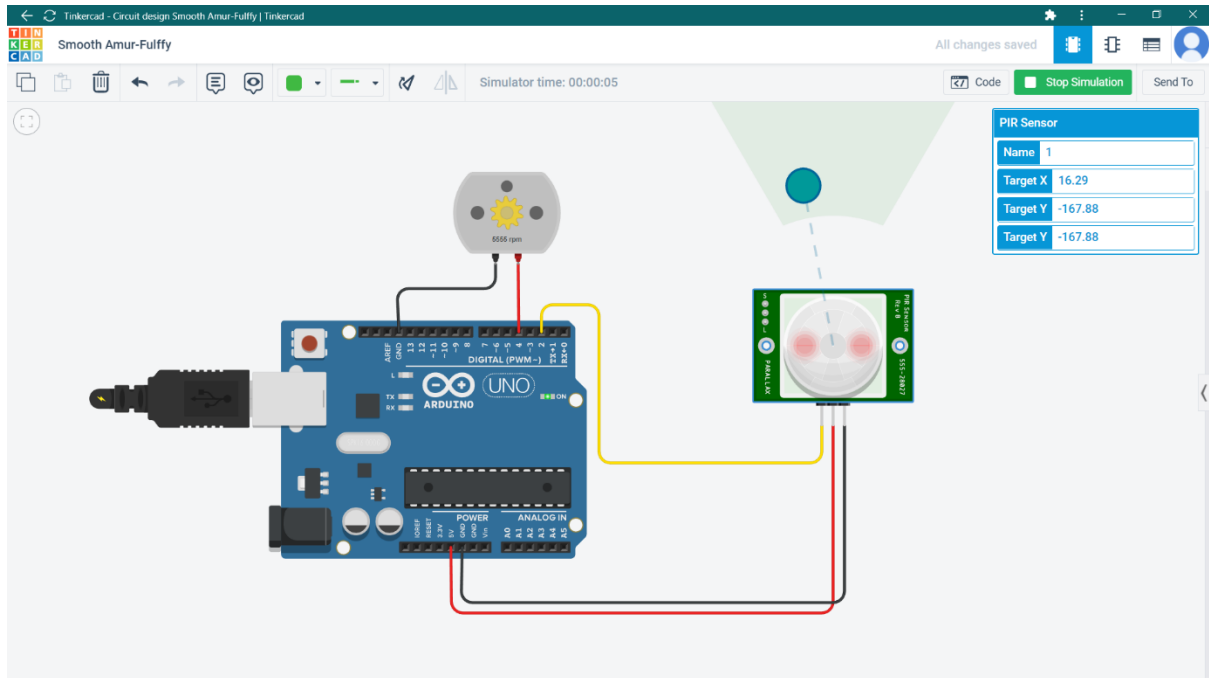


Home automation

Automatic fan control using PIR motion sensor

Circuit:



Code:

```
int fanPin = 4;
int inputPin = 2;
int pirState = LOW;
int val = 0;

void setup() {
    pinMode(fanPin, OUTPUT);
    pinMode(inputPin, INPUT);
    Serial.begin(9600);
}

void loop() {
    val = digitalRead(inputPin);
    if (val == HIGH) {
        digitalWrite(fanPin, HIGH);
        if (pirState == LOW) {
```

```
        Serial.println("Motion detected!");
        pirState = HIGH;
    }
}
else {
    digitalWrite(fanPin, LOW);
    if (pirState == HIGH) {
        Serial.println("Motion ended!");
        pirState = LOW;
    }
}
}
```