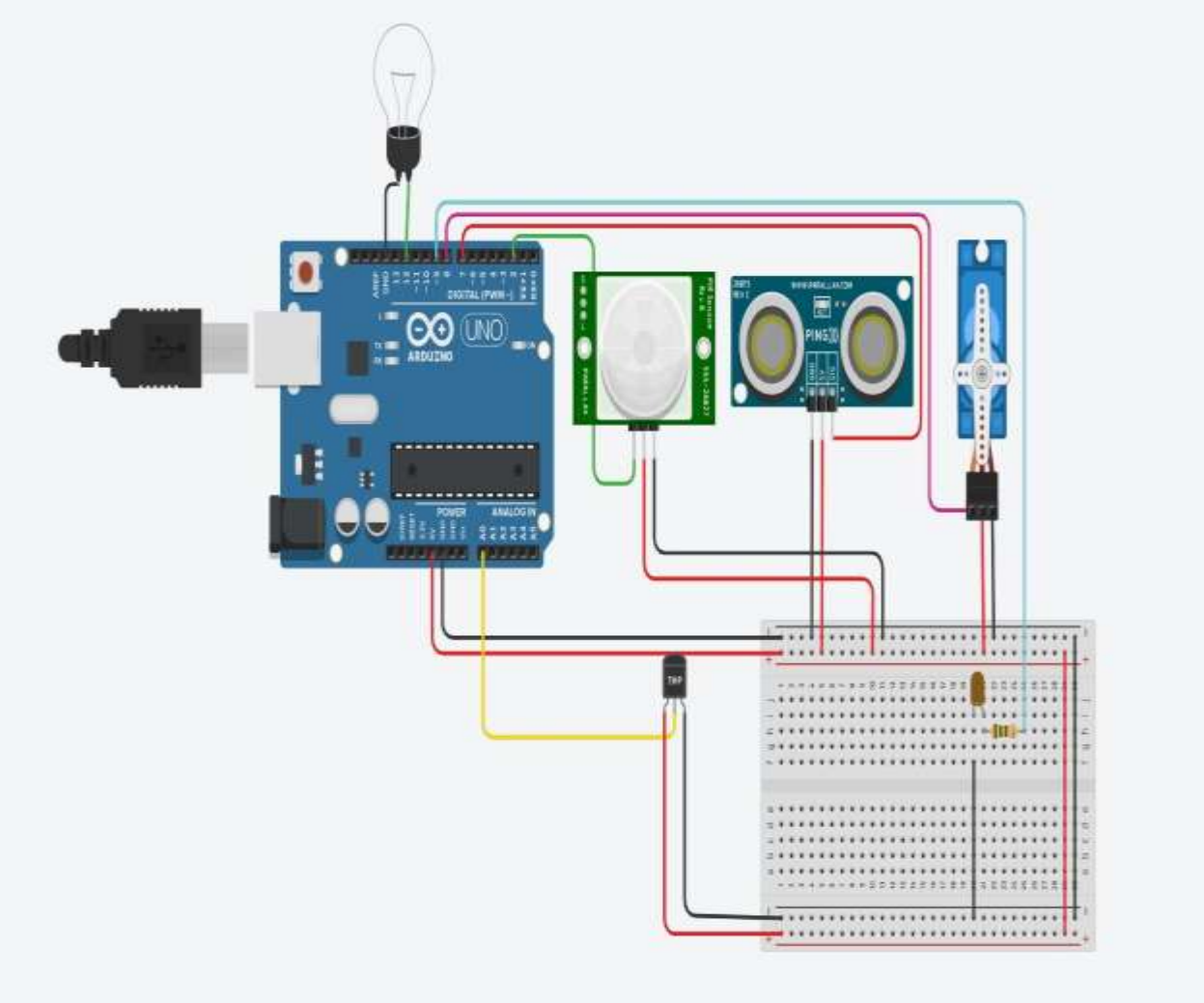
HOME AUTOMATION

```
#include <Servo.h>
int dist = 0;
long readUltrasonicDistance(int triggerPin, int echoPin)
{
pinMode(triggerPin, OUTPUT);
digitalWrite(triggerPin, LOW);
delayMicroseconds(2);
digitalWrite(triggerPin, HIGH);
delayMicroseconds(10);
digitalWrite(triggerPin, LOW);
pinMode(echoPin, INPUT);
return pulseIn(echoPin, HIGH);
}
Servo servo_8;
void setup()
{
servo_8.attach(8, 500, 2500);
pinMode(2, INPUT);
pinMode(12, OUTPUT);
pinMode(A0, INPUT);
pinMode(9, OUTPUT);
}
void loop()
{
dist = 0.01723 * readUltrasonicDistance(7, 7);
if (dist <= 100) {
servo_8.write(90);
delay(1000);
} else {
servo_8.write(0);
delay(1000);
}
if (digitalRead(2) == 1) {
digitalWrite(12, HIGH);
delay(1000);
} else {
digitalWrite(12, LOW);
delay(1000);
}
if (analogRead(A0) > 200) {
digitalWrite(9, HIGH);
delay(1000);
} else {
digitalWrite(9, LOW);
delay(1000);
}
}
```


UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN
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