PIR Sensor

Name 1

Text

```
15    double volt=n*5;
16    double offset=volt-0.5;
17    double temp=offset*100;
18    Serial.print("Temperature Detected: ");
19    Serial.println(temp);
20    if(mov==0){
```

Serial Monitor

```
No Motion Detected
Temperature Detected: 96.00
No Motion Detected
Temperature Detected: 96.00
No Motion Detected
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No Motion Detected
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No Motion Detected
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Motion Detected
```

PIR Sensor
Rev B
PARALLAX
555-28027

ARDUINO
UNO
TX
RX
L
ON

DIGITAL (PWM~)
AREF
GND
13
~11
~10
~9
8
7
~6
~5
4
~3
2
TX▶1
RX◀0

POWER
IOREF
RESET
3.3V
5V
GND
GND
Vin

ANALOG IN
A0
A1
A2
A3
A4
A5

```cpp
void setup()
{
  Serial.begin(9600);
  pinMode(4,OUTPUT);
  pinMode(7,INPUT);
}
void loop()
{
  int mov=digitalRead(7);
  double dt=analogRead(A3);
  double n=dt/1024;
  double volt=n*5;
  double offset=volt-0.5;
  double temp=offset*100;
  Serial.print("Temperature Detected: ");
  Serial.println(temp);
  if(mov==0){
    Serial.println("No Motion Detected");
  }
  if(mov==1){
    Serial.println("Motion Detected");
    tone(4,100,1000);
  }
  if(temp>60){
    tone(4,400,1000); }}
```