SMART HOME

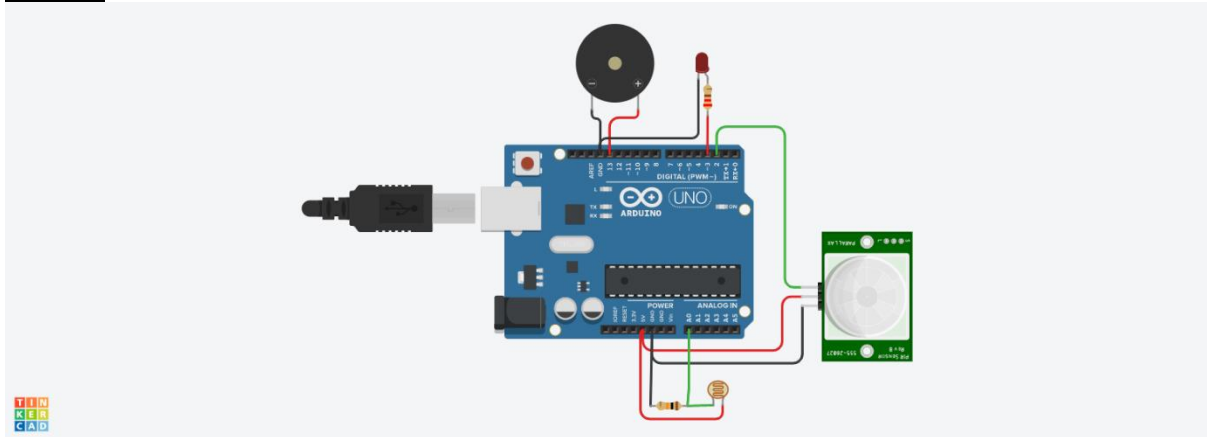**Circuit:**

Components Used:

1. Arduino UNO
2. Buzzer
3. LED
4. Resister – 10 Ω, 221 Ω
5. PIR sensor
6. Photoresistor

Code:

```
int buzzer = 13;    // th
int sensor = 2;
int state = LOW;
int val = 0;

int ldr=A0;//Set A0(Analog Input) for LDR.
int led = 3;
int value=0;

void setup() {
 pinMode(buzzer, OUTPUT);
 pinMode(sensor, INPUT;

 pinMode(led,OUTPUT);

 Serial.begin(9600);
}

void loop(){

 value=analogRead(ldr);
 Serial.println("LDR value is :");
 Serial.println(value);
 val = digitalRead(sensor);

 if(value<250)
 {
```

```
    digitalWrite(led,HIGH);
  }
  else
  {
    digitalWrite(led,LOW);
  }

  if (val == HIGH) {
    digitalWrite(buzzer, HIGH);

    delay(500);

    if (state == LOW) {
      Serial.println("Motion detected!");
      state = HIGH;
    }
  }
  else {
      digitalWrite(buzzer, LOW);
      delay(500);

      if (state == HIGH){
        Serial.println("Motion stopped!");
        state = LOW;
    }
  }
}
```